

DTIC/BIB-80/03

AD-A087 800

# COST EFFECTIVENESS ANALYSIS

A DTIC BIBLIOGRAPHY

DTIC-TOS Cameron Station Alexandria, Va. 22314

**JULY 1980** 

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DEFENSE LOGISTICS AGENCY
Cameron Station
Alexandria, Va. 22314

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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Supersedes AD-A052 400									
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*Costs Decisio *Bibliographies Trade O	ent Planning 8 n Making ff Analysis cs Planning	Control Systems Engineering Value Engineering Life Cycle Costs							
20. ABSTRACT (Continue on reverse side if necessary end This bibliography contains reports on Cost Effectiveness program evaluations, managemedevelopment decision making, related cost analysis and method neering. Four computer-general Author Monitoring-Agency, Sub	unclassified- Analysis. The standard of the chair of the chain of the chair of the	ese citations emphasize research and blems, tradeoffs, systems value engi- erovided are: Corporate							

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# FOREWORD

This bibliography contains 341 unclassified-unlimited citations on Cost Effectiveness Analysis.

These citations are studies and analyses pertaining to cost effective analysis relating to program evaluations, management techniques, design tradeoffs, related cost analysis and methodology, and systems value engineering.

Entries have been selected from references processed into the Defense Technical Information Center data bank from July 1973 to February 1980.

This report supersedes DDC report bibliography on *Cost Effectiveness Analysis*, AD-A052 400, DDC BIB-78-01 dated April 1978.

Individual entries are arranged in AD number sequence under the heading bibliographic references. Computer generated indexes of Corporate Author Monitoring-Agency, Subject, Title and Personal Author are provided.

BY ORDER OF THE DIRECTOR, DEFENSE LOGISTICS AGENCY

**OFFICIAL** 

HUBERT E. SAUTER

Administrator

**Defense Technical Information Center** 

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

13/10 15/5 5/9

NAVY PERSONNE, RESEARCH AND DEVELOPMENT CENTER SAN DIEGO

Facilities Maintenance Demonstration (U) Study.

DESCRIPTIVE NOTE: Final rept. 1 Oct 73-30 Jun 75.

JAN 76 98° Schwartz.Melvin A.:

REPT. NO. NPROC-TR-76-29

PROJ: SF555-25

TASK: SF555-25-21

#### UNCLASSIFIED REPORT

DESCRIPTORS: (\*frigates. Maintenance). (\*Maintenance, Shipboard), (\*Cost effectiveness, Naval personnel), Manpower, Cost analysis, Reduction, Attitudes(Psychology), Motivation. Skills. Naval training, Military facilities.

Automation
IDENTIFIERS: Facilities maintenance, Man hours.
FF-1052 class vessels. Shipboard manning (U)

Facilities Maintenance (FM), as currently performed by shipboard personnel, requires a considerable expenditure of man-nours and material considerable expenditure of man-hours and material resources. Do't to a number of problems and practices. FM is not performed efficiently. As a result, man-hour expenditures are excessively high; ship's condition, cleanliness and appearance deteriorate; crew morale and motivation are undermined; and cost to the Navy is increased. Potential solutions to underlying problems were studied on an operational ship of the FF 1052 class. The solutions included a team approach to the FM work; an information management system for work scheduling; audiovisual training program in fM; improvements in FM equipment and materials; and environmental improvements. The findings of the study indicated that: (1) a significant and chiromental improvements. The findings of the study indicated that: (1) a significant reduction in mar-hour expenditures and cost to the Navy is feasible through a systematic innovation program: (2) skill and knowledge of FM team personnel was significantly improved: (3) shipborad spaces are cleaner and better maintained with FM innovations; and (4) attitude and motivation of FM personnel are not positively affected. affected.

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AD-8009 25: 17/2.1 14/1

DEPARTMENT OF THE ARMY WASHINGTON D C

VHF-FM Portion of the Single Channel Ground and Airborne Radio Subsystem Concept Formulation Package. Appendix IV. Cost and Operational Effectiveness Analysis.

DESCRIPTIVE NOTE: Technical rept. dan-Oct 75. OCT 75 33P

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-C004 928L and Annex A to Appendix 4. AD-B009 252L. DESCRIPTORS: (\*Communication and radio systems. Very nigh frequency). (\*Radio equipment. \*Cost analysis). (\*Cost effectiveness. Radio equipment), Effectiveness, Airborne, Channels, Ground support equipment, Frequency modulation. Slectronic warfare. Threats, Performance. Venicles, Manportable equipment. Communications

IDENTIFIERS: \*Coerational effectiveness, SINCGARS project, Figure of merit. Subsystems. Concept (U) formulation

This appendix is a compilation of two separate and distinct cost and Operational effectiveness analyses (COEA) which were conducted to evaluate the four alternatives recommended to satisfy the SINCGARS-V requirements. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-B007 209 5/9

CALSPAN CORP BUFFALO N Y

B-1 Systems Approach to Training. Volume II. Appendix A. Cost Details. (11)

DESCRIPTIVE NOTE: Final rept. Jul 74-Oct 75.

JUL 75 31P Reif.Hans G. :Ring.william JUL 75 31P Reif, Hans G.: Ring, Willi F. H.: REPT. NO. CALSPAN-FE-5558-N-1-VOI-2, CALSPAN-TM-CONTRACT: F33657-75-C-0021

#### UNCLASSIFIED RE' JRT

SUPPLEMENTARY NOTE: See also Volume 3. AD-BOO7 2101.'
DESCRIPTORS: (\*Flight training, Systems analysis), (\*Air Force training, Cost estimates). Cost (\*Air Force training, Cost estimates), Cost analysis, Flight crews, Jet bombers, Courses(Education), Training devices, Costs, Data Dases, Base lines, Air Force procurement, Kaintenance, Life cycles, Instructional materials, Cost effectiveness
IDENTIFIES. B-1 aircraft, Life cycle costing

The purpose of this report is to document the details of the cost analysis for the B-1 Aircrew Training System. Included are the cost data estimates are made, the actual from which cost estimates are made, the actual values used to evaluate the recommended, baseline system, and results from the other analyses which were conducted on selected parameters; (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20007

AD-8608 685 15/5 13/6

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH

An Analysis of Cost Implications of An analysis of Cost imprications of Accomplishing Direct Support Maintenance Tasks for the Truck. 1'4-Ton. R:51 Series at the Organizational Maintenance Level.

DESCRIPTIVE NUTE: Final rept..
HNN 75 133P Fischer.Donald C. . Jr:

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NCTE: Muster's thesis. DESCRIPTOFS: (\*Trucks. Vaintenance). DESCRIPTORS: (\*Trucks, Vaintenance).
(\*Maintenance manacement, \*Costs).
(\*Maintenance Cost effectiveness). Army
operations, Military venicles, Management.
Organizations, Optimization, Logistics support.
Tools, Army training, Machanics, Repair,
Replacement, Automotive Jomponents, Computerized
simulation, Statistica' analysis
IDENTIFIERS, \*M-151 trucks(1/4-ton)

The study tests the hypothesis that if responsibility for replacement of engines. transmissions, clutches, and steering gear assemblies for the M151 1/4-ton truck series was moved to organizational level, there would be significant cost savings. The history of automotive maintenance management is examined. Tool and training cost implications are investigated. A computer simulation generates direct support maintenance requirements, costs, and tests results for Statistical significance. (Author) (U)

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AD-8006 333 17/9 9/5 14/1

NAVAL ELECTRONICS LAB CENTER SAN DIEGO CALIF

Multifrequency Arrays: Design and Cost Considerations.

DESCRIPTIVE NOTE: Research and development rept. 3 Mar

69-2 Jul 75. JUL 75 45P JUL Provencher.J. H. : Vaughn,

G. :Proctor.D. :Boyns.J. E. :
REPT. NO. NELC/TR-1956
PROJ: SF12-121, NELC-D210
TASK: SF12-121-417

# UNCLASSIFIED REPORT

DESCRIPTORS: (\*Phased arrays, Hydrofoil craft). Cost analysis, Phase shift circuits, Gain, Arrays. Costs. Weight, Lightweight. Errors, Search radar, Radar tracking, Extremely high frequency, Integrated circuits, Wavelengths IDENTIFIERS: Design, Multifrequency, Multiband

antennas

IAC ACCESSION NUMBER: GC-753059 AC DOCUMENT TYPE: GACIAC -HARD COPY-This report describes several multiband antenna IAC DOCUMENT TYPE: techniques and a method of cost analysis for array antennas. A concept is given which has potential to reduce overall array costs for large phased array reduce overall array costs for large phased array systems by using component commonality to propagate several frequency bands. Techniques which can be used to reduce the cost, weight, and complexity of phased arrays are given, as well as potential applications for these techniques on small craft such as the hydrofoil. (Author)

G--(U)RADAR. MULTIFREQUENCY RADAR. IAC SUBJECT TERMS: AC SUBJECT TERMS: G--(U)RADAR. MULTIFREQUENCY RADAR. RADAR ANTENNAS. PHASED ARRAY ANTENNAS. SEARCH RADAR. TRACKING RADAR, SIDELOBES, ANTENNA RADIATION PATTERNS. ANTENNA ARRAYS. PHASE ERROR, PHASE SHIFT, DENIDIRECTIONAL ANTENNAS. ANTENNA SCANNERS, LIGHTWEIGHT, ELEVATION SCAN. GIGAHERTZ 2-3, SHIPBORNE EQUIPMENT, HYDROFOILS, COMPUTERIZED MODELS, COST ANALYSIS:

AD-8006 333

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONO?

AD-8002 859 1/3

DOUGLAS AIRCRAFT CO LONG BEACH CALIF

Conceptual Design Studies of Composite

(U)

DESCRIPTIVE NOTE: Final technical rept. 29 May 73-23 May 74. OCT 74 218P Nelson. W. D. : Wilson. H.

W. : Hart-Smith.L. J. : Cominsky.A. : Scott.

REPT. NO. MOC-46446 CONTRACT: F33615-73-C-5164

MONITOR: AFML TR-74-164

# UNCLASSIFIED REPORT

DESCRIPTORS: (\*Short takeoff aircraft. \*Cumposite materials). (\*Composite materials. \*Airframes). (\*Cost analysis. \*Short takeoff aircraft). Je\* transport planes. Weight reduction. Graphite. Carbon fibers. Epoxy resins. Wings. Fuselages.
Structural members. Horizontal stabilizers.
Vertical stabilizers. Shells(Structural forms).
Sandwich panels. Laminates. Sandwich construction.
Honeycomo cores. Tape wound construction. Costs. Reduction, Life cycles. Maintenance. Performance(Engineering)

DENTIFIERS: Advanced medium STOL transports. C-15 aircraft. Inornel 300 fibers. Truss webs.

JT8D-17 engines (U)

A current Advanced Wedium STOL Transport (AMST) production aircraft configuration was used as a baseline to determine vehicle performance and cost improvements accruing from the maximal use of advanced composite materials in the airframe. The primary wing and empennage box structure and fuselage primary wing and empenhage box structure and fuse shell applications were emphasized together with selected applications in secondary structures to reduce the weight of the airfrage. The properties of high-strength graphite-epoxy composites (representative of Thornel 300 fibers) were used in the application studies. Material costs representative of Thornel 300/epoxy prepreg and a local of the state of the lower cost pitch-based fiber/epoxy prepreg were used in the cost analyses.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-8002 031 17/2 12/2

MARTIN MARIETTA AEROSPACE ORLANDO FLA COMMUNICATIONS AND ELECTRONICS DIV

Integrated Tactical Communications System (INTACS). Task III. Communications System Effectiveness and Cost Methodology Development.

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Task 4 Supplement dated Dec 74, AD-BC02 032L. DESCRIPTORS: (\*Tactical communications, Integrated systems), Army, Systems analysis, Methodology. Cost effectiveness, Communications networks,
Systems engineering, Computerized simulation. Cost
analysis, Risk, Sensitivity, Trade off analyses
IDENTIFIERS: MRTF(Mid Range Time Frame). (U) Mid range time frame (U)

The cost and effectiveness methodology developed in Task III of the INTACS program offers a direct. dependable, and flexible means for evaluating the capabilities and cost of the candidate mid range time frame army communications systems concerned. At the same time, it constitutes an effective tool for ranking there systems further on the basis of technological risk. Thus, the methodology developed will facilitate the selection of a preferred system as intended. (Author) as intended. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AC-8001 641 15/7 5/3

12/1 9/2

OHIO STATE UNIV COLUVBUS SYSTEMS RESEARCH GROJP

Development of a Dynamic Simulation Filter.

(U)

DESCRIPTIVE NOTE: Final rept. Jun 71-Oct 74. NOV 74 96P Clark.Gordon M.: NOV 74 96P Clar McCartney.Charles: REPT. NO. RF-3248-FR-74-1(u) CONTRACT: DAAMO1-71-C-1258

#### UNCLASSIFIED REPORT

DESCRIPTORS: (\*War games. \*Decision theory). (\*Computerized simulation. Optimization). (\*Costs. Computerized simulation). Selection. Efficiency, Hypotheses, Filters, Correlation techniques, Experimental design, Variations, Subroutines, Reduction, Blocking, Estimates, Low costs. Random variables. Algorithms. Dynamic response. High resolution. Analysis of variance. Flow charting. Military tectics. Decision making. Land combat. Tactical analyses. Guided missiles. Weapon Systems. Systems analysis. Casualties. Pseudo random systems. Mathematical models. Homogeneity IDENTIFIERS: Dyncom computer program. Filter

models. Alternatives

(U) (U)

The Filter Simulation Experimental Concept for reducing the cost of identifying a preferred system alternative by a Combut simulation is investigated, when using this concept, partial battles are simulated to screen candidate alternatives. The Filter concept of simulation experiments is an application of the block experimental procedure used in experimentation with physical systems. Increased correlation among alternatives improving the efficiency of the method is achieved by the use of common random number is achieved by the use of common random number streams for all alternatives within a block. An experimental model was developed to represent effects of blocked experiments on combat simulation results, and this model includes heterogeneous variances and correlated effects. Using this model, astimators for the variance of average system performance and for the variance of the difference between the

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average performances of two systems were derived.

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AD-AG82 423

12/2

CARNEGIE-MELLON UNIV PITISBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP

The Non Candidate Constraint Method for Reducing the Size of a Linear Program. (U)

DESCRIPTIVE NOTE: Management sciences research rept., FEB 80 17P Sethi, Awanti P. : Thompson. Gerald L. REPT. NO. MSRR-455, WP-52-79-80 CONTRACT: N00014-75-C-0621

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Simplex method, \*Cost effectiveness. Problem solving, Computations, Formats, Flow charting

IDENTIFIERS: Constraints, WUNRO47048

A non-candidate Constraint in a linear program is one which never contains a pivot element during the course of solving the problem. Discovering non course or solving the problem. Discovering non candidate constraints is Commutationally costly since their discovery, in general, depends on the actual sequence of pivots used. Knowing which constraints are non candidate is of great computational benefit since they need not be kept in updated form. Our experience indicates that from 50 to 80 percent of the constraints in randomly problems are non candidates at least part of the time. In this paper we present a learning approach to the identification of non candidate constraints. At each iteration we of non candidate constraints. At each iteration we determine which constraints can potentially be pivotal; these are candidate constraints and all others are non candidate constraints on that step. On proceeding with the simplex method we update only the candidate constraints. If a non candidate constraint becomes candidate on a later step, we update it and add it to the candidate list. Although the constant checking of constraints to see whether they are changing from being candidate to non candidate is computationally costly, we obtain the computational benefit of having to keep in updated form a much smaller tableau. The net benefit of using this strategy is positive and results in a 25 to 50 percent reduction in total computation time.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOVO?

AD-ADR2 343

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MCDONNELL DOUGLAS ASTRONAUTICS CO-ST LOUIS NO

Low-Cost Terminal Alternative for Learning Center Managers.

(u)

(U)

DESCRIPTIVE NOTE: Final rept..
FEB 80 22P Nix.C. Jerome :Tate.
Thompson :Cutka.Stephen C. :Montgomery.Harold
L. :Showers.David P. :
CONTRACT: F336:5-78-C-0037
PROJ: 1121
TASK: 02

MONITOR: AFHRL 1R-79-77

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Terminals. \*Data processing terminals. \*Computer aided instruction. Training. Cost effectiveness. Requirements. Surveys. User needs. Cost analysis. Low Costs. Costs. Reduction. Savings. Facilities
IDENTIFIERS: WUAFHRL11210229. PE62205F

This study established the feasibility of replacing high performance and relatively expensive terminals with less expensive ones adequate for supporting Specific tasks of Advanced Instructional System (AIS) at Lowry AFB. Colorado. Surveys of user requirements and available devices were conducted and the results used in a system analysis. The results of the analysis formed the basis for determining the detailed hardware requirements and subsequent hardware selection, procurement and installation. Additionally, the software modifications necessary to accommodate the new hardware were made and the resultant total system was evaluated in an operational training environment. (Author)

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AD-AC82 328 17/4 9/4 17/2.1

TEXAS A AND M UNIV COLLEGE STATION DEPT OF ELECTRICAL

Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III. (U)

DESCRIPTIVE NOTE: Final technical rept. 1 Mar 78-15 Apr 79 On Phase 3, MAY 79 77P CONTRACT: F33615-75-

Painter.John H. : F33615-75-C-1011

PROJ: 2305 TASK: 'R3

MONITOR: AFAL TR-77-104-VOL-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A048 181 and Volume 2, AD-A082 327.
DESCRIPTORS: \*Radio antijamming, \*Data links, \*Information theory, \*Signal processing, \*Radio equipment, white noise, Radio navigation, Digital systems, Digital computers, Multipath transmission, Tadio interference. Radio interference, Integrated systems, Mathematical models, Low costs, Monte Carlo mathed Dptimization, Algorithms, Modems, Sampling, Estimates, Demodulation, Alrborne IDENTIFIERS: Racursive detectors, Colored noise, CDC 6600 computers, Multiplicative noise. (u) IDEI(Integrated Detection Estimation and Identification). Additive noise. PE61102F.

This report documents the final phase of research under the subject contract. Previous results showed that the Minimum Probability of Error recursive detector for colored plus white noise, tracks the colored noise and subtracts it from the data. The present effort investigated the effects on optimum detector performance of carrier phase estimation. A good characterization of the effects was obtained. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20907

AD-A082 120 1/3 20/1

UNITED TECHNOLOGIES CORP WINDSOR LECKS CONN MAMILTON STANDARD DIV

Influence of Noise Reduction on Weight and Cost of General Aviation Propellers.

(U)

DESCRIPTIVE NOTE: Final rept...
JUN 79 111P Klatte
Frederick B.: Klatte.Robert J. :Metzger.

CONTRACT: DOT-FA78WA-4111 MONITOR: FAA-AEE 79-18

UNCLASSIFIED REPORT

DESCRIPTORS: \*Propeller noise. \*Noise reduction. Costs. Reignt. Performance(Engineering). Aircraft. Civil aviation. Mathematical prediction. Blade airfoils. Sizes(Dimensions). Shape IDENTIFIERS: Arrow 2 aircraft. Debonair aircraft. Duchess aircraft. Twin Ottor mircraft. General

aviation (U)

Results of a study are reported in which the influence of noise reduction on well trandicost of propellers used in General Aviation birdraft was evaluated Aircraft performance was not to be degraded by installation of the reduced noise propellers. Unly propeller modil-dations were permitted. Engine modifications, such as introduction of a gearbox to reduce noise by reduction of RPM. were not permitted in the study. reduction of RPM. Were not permitted in the study. Major factors in noise reduction found promising in the study were (1) optimization of performance by use of the best available airfoils. (2) use of thin airfoils and a narrow elliptical tip blade planform. and (3) increasing the number of blades consistent with maintaining aircraft performance. For the three aircraft studied (a single engine, a light twin and a heavy twin) the flyover noise reduction potential varied from 3 to 8 dBA with no weight or cost penalty. Greater reductions in noise resulted Cost penalty. Greater reductions in noise resulted in increased weight and/or cost penalties. Also, in some cases. Encine noise would have to be reduced to achieve greater reductions. The progress by General Aviation aircraft manufacturer's in reducing noise is indicated by the finding that the most recent aircraft design had the smallest noise reduction octential. (Author) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A082 028 1/3 21/5 21/7

BOLT BERANEK AND NEWMAN INC CANGGA PARK CALIF

Cost/Benefit Tradeoffs Available in Aircraft Noise Technology Applications in the 1980'=

Wilby.John F. : Galloway.

DESCRIPTIVE NOTE: Final rept..
DEC 79 175P wilby.
Milliam J.:
REPT. NO. 5BN-3856
CONTRACT: DDT-FA77WA-4037
MONITOR: FAA/EE 80-2

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft noise. \*Noise reduction. JESCRIPTONS: "Aircraft noise, "Noise reduction Jet transport planes, Jet engine noise, Turbomachinery, Combustion, Propeller noise, Piston engines, Airframes, Aerodynamic noise, Turbofan engines, Control, Benefits, Costs, Performance(Engineering), Trade off analyses

The Current status of aircraft noise control the current status or afficient noise control technology is reviewed to identify those measures that have a reasonable potential for application to aircraft coming into service in the 1980's. Noise reduction achievable when these noise control measures are applied to two transport category airplanes, a business jet, and a small propeller-driven twin is determined. Costs and performance order than is determined. Costs and performance penalties are determined for each noise Control option. Benefits are measured by reductions in FAR 36 Certification noise levels and in reductions in EPNL contour areas. The study shows that current. late 1970's, noise control practices permit transport category airplanes to meet the FAR 36 Stage 3 noise limits, yet application of additional noise control measures is not likely to provide additional reduction of the noise levels for these aircraft by more than 3 decibels. New business jet noise levels will be as much as 10 decibels lower than Stage 3 limits for takeoff, and as much as 5 decibels on approach, with additional reductions of more than 3 decibels unlikely. Introduction of newly designed, geared reciprocating engines would provide reductions of 10 or more decibels for nigh performance single and twin-engined, propeller-oriven small airplanes, relative to existing practice-

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AIR FORCE ACADEMY CO.

UNCLASSIFIED DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

Some Fundamental Properties of Governmental Expenditure Patterns-Theory and Evidence Based on Military Expenditures.

15/5

AD-A08: 999

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DESCRIPTIVE NOTE: final rept.. FEB 80 33P heida.William J.: REPT. NO. USAFA-TR-80-3

#### UNCLASSIFIED REPORT

DESCRIPTIONS: \*Forecasting. \*Cost analysis. Seapons. Patterns. Theory. Risk. seapon Systems. Curve fitting. Growth(General) IDENTIFIESS: Government expenditures. Willtary (U) (U) expenditures

This paper proposes the thesis that there is some common element which links all military expenditures. That element is the growth curve—the idea that government expenditures proceed in a logical. well-Ordered pattern, building on what has mappened in the past and predetermining what will happen in the future- Considered rationally, there is simply not other way to go things when large amounts of money and effort are expended. And yet, for reasons which are more based on the academic mystique than logic. this important, underlying factor which determines the way in which money is spent is selong exploited. The result is poor forecasts, and the solution to the problem is simple. The research in this paper argues that the growth process is the driving force benind both individual weapon systems costs and the Expenditure of monies in entire weapon cost categories. This research has also shown that a knowledge of the growth curve will allow useful forecasting in the presence of data so spar a that time series techniques may not be able to function. In sum. the research cited in this paper would seem to indicate that. Given the proper methods of normalizing the data and calculating the curve form. the growth curve could serve as the major tool in forecasting this and other countries' military expenditures. (Author) (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO?

AD-A081 990 13/9

THIOKOL CORP HUNTSVILLE AL HUNTSVILLE DIV

Methodology for Producing Low Cost/ Disposable Mandrels. (U)

DESCRIPTIVE NOTE: Final technical rept. Nov 75-Dec 79.
DEC 79 229P kepb.G. E. :Vance.S. L.
;Manning.H. E. :Clark.H. T. :Byrd.J. D. :

REPT. NO. U-79-03 CONTRACT: DAAK40-77-C-0009 MONITOR: DRSMI/RK CR-80 C4-80-2

UNCLASSIFIED REPORT

DESCRIPTORS: "Mandrels, "Production, "Methodology, Solid propellant rocket engines, Low costs, Disposal, Batch processing, Manufacturing, Casting, Tools, Foam, Curing, Puil tests, Cost estimates, Die casting, Injection molding IDENTIFIERS: Disposal mandrels

This report describes work accomplished Guring a program to develop manufacturing methods and technology required to reduce the Cost of batch processing of small. Nigh production motors such as SEAS, Viper, and FFR by using disposable (low cost throw-away) casting fixtures using Quick Cure HTPB propellant. (Author)

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COC REPORT BIBLIGGRAPHY SEAFCH CONTROL NO. ZOWOT

22/1 14/1 AD-A081 859 9/2 15/5

RAND CORP SANTA MONICA CA

Cos -Effectiveness Weasures of Replemisment Strategies for Systems of Orbital Spacecraft.

DEC 79 S7P Krell.Bruce E. : REPT. NO. RAND/N-1295-2F CONTRACT: F4962U-77-C-0023

UNCLASSIFIED REPORT

DESCRIPTORS: "Antificial satellites. "Replemisament. "Computerized simulation. "Cost effectiveness. Bethocology. Life cycle costs. Launch vehicles. Space shuttles. Computer programming. Efficiency. Formats. Flow charting

For many years the U.S. Air Force has employed large-scale, discrete-event digital simulation models for evaluating the cost effectiveness of various replenishment strategies for operating satellite systems. The extensive use of Computer simulation presupposes a problem complexity ingractable to closed form on analytical solutions. This statement is true if analysis recurres a great amount of detailed information. This mote demonstrates that there is a level of somecation of the data imputs at which closed form tractability day be attained. Moreover, given this input apprecation representing failure patterns and replemishment representing failure patterns and replenishment strategies. The exact closed forms for approximating cost-effectiveness are denised. The closed form expressions for the cost-effectiveness of satellite systems are not meant to replace the languages assimulation programs. The aggregate level measures can be most effectively employed to chock the computer programs for internal consistency and to narrow the focus of acceptable inputs into the larger scale simulation. Promer use of the analytical tools presented merein can reduce the computational effort by significantly requaing the number of simulation runs necessary to identify the most attractive replanishment methods.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A081 759

14/1

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO

Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System 1.

NOV 79 104P Swope, William M.; Yelvington, Cynthia ; Corey, James M. ; REPT. NO. TAEG-77

#### UNCLASSIFIED REPORT

Availability: Document partia ly illegible.
DESCRIPTORS: \*Cost models, \*Cost analysis,
\*Training, \*Data bases, Education, Cost
effectiveness, Economic analysis,
Inflation(Economics), Planning, Estimates,
Resources, Scaling factors, Billets(Personnel),
Requirements, Specifications, Navy
IDENTIFIERS: Incremental conting models, Fixed
costs, Variable costs (U) costs, Variable costs (U

This cost model is designed to separate the fixed and variable costs of training. It is designed for use with the Per Capita Training Data Base being maintained by the Chief of Naval Education and Training. The model will estimate the change in total costs as a function of the change in training load, the operation or planning period resource characteristics and current utilization rate of training resources. The model includes, a number of user defined options, including options for adjusting the revised average total cost for scale effects and for inflation. (Author) This cost model is designed to separate the fixed

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT

AD-A081 666

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RCA SOLID STATE DIV SOMERVILLE NJ

20/12

Phase II Final Development Report for High-Reliability. Low-Cost Integrated Circuits.

(U)

DESCRIPTIVE NOTE: Final rept. 3 Feb 77-22 May 79. MAY 79 122P CONTRACT: NGC039-76-C-0240 PROJ: F54586 TASK: XF54586002

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Phase 1. AD-A039 DESCRIPTORS: \*Integrated circuits. \*Complementary metal oxide semiconductors. Shift registers. Operational amplifiers. Transistor transistor logic. Silicon nitrides. Schottky barrier devices. Nand Qates. Low costs. High reliability. Chips(Electronics). Bonding. Wafers. Passivity. Copper. Gold. Fabrication. Manufacturing. Automation (U) IDENTIFIERS: Beam tape bonding. Lead bonds. Automated assembly System. Sealed chip processing. Bonding tapes. Lead frames. Plastic packages. Ceramic packages. Gold bumps. PE62762N (0)

The objectives of Phase II of this investigation were to 'abricate significant quantities of eight integrated circuit types using the techniques defined in Phase I (see Phase I final Development Report for High Reliability. Low Cost Integrated Circuits), perform a preliminary reliability investigation, and formulate comparative cost data. Wafers and finished devices were processed for eight integrated-circuit types. These types included three TIL circuits (5420, 5472, 5470), one Schottky TTL circuit (54820), three CMOS circuits (CD4012B, CD4014A, CD4027A) and one linear circuit (CA7411. The preliminary reliability investigations defined notential reliability problems, which were subsequently successfully resolved, and provided preliminary data regarding activation energies and failure rates.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A081 804

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NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Complexity as a factor of Quality and Cost in Large Scale Software Development.

(u)

(U)

DESCRIPTIVE NOTE: Master's thesis, DEC 79 98P Harris, Joe Newton :

UNCLASSIFIED REPORT

DESCRIPTORS: +Computer programs, +Research management. Quality. Cost estimates. History. Systems analysis, Models, Graphs. Management planning and control. Systems management. Test methods, Allocations, Resources, Theses IDENTIFIERS: Software development, Complex programming, Computer models, Large scale

The impact of complexity on software quality and costs is examined. Historic and current issues relating to complexity in the software development and software cost estimation processes are reviewed. Select complexity models and metrics are described and briefly analyzed. Finally, an argument is presented in support of McCape's Directed Graph Model as a useful software management tool in controlling complexity, formulating a test strategy and allocating resources. (Author) (u) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A081 513

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15/5 5/9

ASSESSMENT GROUP SANTA MONICA CA Manpower/Hardware Life Cycle Cost Analysis Study.

(U)

DESCRIPTIVE NOTE: Rept. for Oct 77-Dec 78.

NOV 79 495P York.Francine Y. :Butler.
Robert A. :Eskew.Henry L. :
CONTRACT: N00014-77-C-0809

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Administrative Sciences Corp.. Alexandria. VA.
Contract N00014-77-C-0811.
DESCRIPTORS: \*Acquisition. \*Naval procurement.
\*Life cycle costs. \*Weapon systems. Manpower.
Cost models. Naval personnel. Naval training

(U)

The Manpower/Hardware Life Cycle Cost (LCC) Analysis Study was conducted to analyze life cycle cost models and methods, with particular emphasis on Manpower. Personnel and Training Support (MP&TS) costs, and their contribution to total system economic costs over the life cycle of a weapon system. The study's principal objective was to examine the Weapon System Acquisition Process (WASP) to determine when manpower/ hardware tradeoffs should be made, the level of hardware tradeoffs should be made, the level of detail necessary, and specifications for the MPATS LCC model necessary to perform the analysis.
Existing Navy MP&TS cost models are examined to determine their ability to accurately reflect the economic cost of military manpower relevant for tradeoff dicisions. Several hardware costing techniques are also reviewed to determine their usefulness for conducting hardware/manpower cost tradeoff analyses. The report makes specific recommendations and proposes quidelines for the development of cost models and techniques that facilitate hardware/manpower tradeoff analysis. (Author)

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AD-Ã081 513

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A081 492 15/5 FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS Production Lot Sizing with Material Handling Cost Considerations. (U) E: Research rept.. DEC 79 DESCRIPTIVE NOTE: Hodgson.T. J. :Lowe.T. NO. RR-79-7

#### UNCLASSIFIED REPORT

N00014-76-C-0096

DESCRIPTORS: \*Industrial production, \*Storage. Materials handling, Warehouses, Automatic, Allocations, Cranes, Travel, Costs, Optimization, Mathematical models, Computer programming IDENTIFIERS: Lot sizing, AS14D, PE61102A

The determination of production lot sizes and the assignment of storage space in a warehouse for the produced items are usually treated as two separate problems: The former providing input (space needed) to the latter. In this paper, we treat the decision problems as one with the objective of minimizing total setup, inventory carrying, and warehouse material handling cost. We treat the minimum material handling cost as a Continuous function of the lot sizes and develop an algorithm for finding locally optimal solutions of the derived optimization problem. Computational experience is provided and applications to automated warehousing systems are discussed. (Author) discussed. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A081 146 5/1 13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Rate Stabilization and Its Impact on U. S. Naval Shippards.

(U)

DESCRIPTIVE NOTE: Master's thesis SEP 43P Walters. Melville Joseph .

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Management planning and control. \*Costs. Rates. Allocations. Stabilization. Shipyards. Naval shore facilities. Job analysis. (U) IDENTIFIERS: Rate stabilization (0)

The eight United States Naval Shipyards commenced operation under the rate stabilization concept in 1976. Rate stabilization rufers to the use of annually predetermined rates for the billing of customers for work accomplished in the shipyard. A primary objective of rate stabilization was to provide improved planning and budgeting to the customer and the shipyard. The objective of this thesis was to assess the impact of rate stabilization on the U.S. Naval Shipyards. Conclusions are that the overall operational planning and programming advantages provided by rate stabilization more than offset the disadvantages. Indications are that the concept of rate stabilization is working and that the shipyards are learning to work within the program. It is important that, once stabilized rates have been set, major changes in workload at the individual shipyards do not occur. (Author) The eight United States Naval Shipyards

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A081 072

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MCDONNELL DOUGLAS ASTRONAUTICS CO-ST LOUIS MO

Low-cost Computer-Aided Instruction/ Computer-Managed Instruction (CAI/CMI)
System: Feasibility Study.

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DESCRIPTIVE NOTE: Final rept..
DEC 79 152P Lintz.Larry M. ;Tate.
Thompson :Pflasterer.David C. ;Nix.C. Jarome ;Klem.Thomas G. ; CONTRACT: F33615-78-C-0031 PROJ: 1121 TASK: 02

UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer aided instruction. \*Computer programs, \*Low costs, Programming languages.

Management training, Teaching methods.

Supervisors, Air Force training, Computers,
Area coverage, Feasibility studies, Functions.

Surveys
IDENTIFIERS: CMI(Computer Managed Instruction).
Technical training, WUAFHRL11210228,
PE62205F

This study investigated the feasibility of a low-cost computer-aided instruction/computer-managed instruction (CAI/CMI) system. Air force instructors and training supervisors were surveyed, to determine the potential payoffs of various CAI and CMI functions. Results indicated that a wide range of capabilities had potential for resident technical training. Surveys of selected computers, terminals, communications, and support software identified candidates for the low cost system. (Author) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A080 962 1/3 -14/1 13/8

BATTELLE COLUMBUS LABS CH

Briefing on Manufacturing Technology (MT) Cost Driver Analysis Program to Naval Air Systems Command. Department of the Navy. Washington. D.C..

(U)

JUN 79 204P NO CONTRACT: DLA900-78-C-1715 Noton.Bryan R. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft. \*Life cycle costs. \*Manufacturing, \*Cost analysis, Costs, Reduction, Airframes, Aircraft engines, Systems engineering IDENTIFIERS: Cost drivers

(11)

This study is in response to the urgent need to reduce manufacturing costs of aircraft systems. The subsystems studied were airframes: lengines: mechanical and hydraulic systems: and crew systems. This study was only concerned with cost drivers in the manufacture of components in aerospace companies. i.e., acquisition costs. The objectives of this manufacturing technology (MT) cost—driver analysis program were to: identify cost driver in Navy aircraft manufacture, identify cost driver communality, and provide a basic framework for evaluating manufacturing technology (MT) projects. General conclusions from this study are that we must accelerate our efforts to change the emphasis from only performance to affordable performance. Spiraling aircraft costs must be better controlled. It was also concluded that many costs drivers are designed into aircraft. Further conclusions related to MT are minimum new MT has been introduced into production in the past 10 years, most MT cost drivers are common to all subsystem. MT projects should be selected that provide a high return—on-investment (ROI), emerging MT still displays significant cost drivers. MT should be developed and proven acceptable before introduction into production, and developing MT on a production program is seldom cost effective. This study is in response to the urgent need to

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 14/1

AD-A080 945

17/7

ARINC RESEARCH CORP ANNAPOLIS MD

Avionics Cost Development for Civil Application of Global Positioning System.

(11)

(u)

APR 79 97P Kowalski.S. H.:
REPT. NO. 1326-01-7-1873
CONTRACT: DOT-FA76WA-3788
MONITOR: FAA-EM 79-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Global positioning system. \*Cost estimates, Cost analysis. Avionics, Systems analysis, Civil aviation, Procurement, Electronic equipment, Parts, Tables(Data), Methodology. Computations

This report presents the results of the cost analysis of avionics required in support of the civil application of the Giobal Positioning System (GPS). The design considered for analysis was chosen because of the advanced state of development which provided the necessary data for cost evaluations. The costs of avionics were developed using both the parametric and accounting methods of cost estimating. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A080 930

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PAND CORP SANTA MONICA CA

An Approach to the Life-Cycle Analysis of Aircraft Turbine Engines.

( Li)

DESCRIPTIVE NOTE: Interim rept..

DEC 79 C2P Nelson.J. R.:

REPI. NO. RAND/N-1337-AF

CONTRACT: F49620-77-C-0023

21/5

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. R-2103-AF dated Nov 77. AD-A050 349 and Rept. no. RAND/R-2391-AF dated Apr 79. AD-A069 282.

DESCRIPTORS: \*Gas turbines \*Aircraft engines.\* Life cycle costs. Cost analysis. Cost effectiveness. Methodology. Jet fighters.

Monitoring. Forecasting

(U)

A paper prepared for the AGARD/NATO Lecture Series. 'The Application of Design to Cost and Life-Cycle Cost to Aircraft Engines.' scheduled for May 1980. A methodology is described for lire-cycle analysis of aircraft turbine engines from historical data. The methodology enables the weapon-system planner to acquire early visibility of cost magnitudes, proportions, and trends associated with a new military engine's life Cycle, and to identify 'drivers' that increase cost and can lower capability. The methodology is applied at the engine subsystem and aircraft system levels for a military fighter aircraft to demonstrate that decisions about engine performance/scnedule/cost must be made at the system level. Commercial considerations are discusced, as is limited historical experience in engine monitoring, an approach to obtaining the necessary information and procedures for performance and cost feedback to the engine designer. This Note presents portions of previously published Rand work on life-cycle analysis of aircraft turbine engines and engine monitoring systems, together with some recent unpublished work applying the earlier efforts at the aircraft system level. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A080 808

17/1 9/2

RCA GOVERNMENT COMMUNICATIONS SYSTEMS SOMERVILLE N J ADVANCED COMMUNICATIONS LAB

Low Cost, Low Power Dissipation Micro-Signal Processor for Accustic Signal Processing. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 79 23P Hampel.D.; Bradshaw, J. L.;
PROST, K. J.;
CONTRACT: N00014-78-C-0776
PROJ: F11121
TASK: RF11121801

UNCLASSIFIED REPORT

DESCRIPTORS: \*Sonar sound analyzers, \*Signal processing, \*Processing equipment, \*Microprocessors, \*Fast fourier transforms, \*Acoustic signals, complementary metal ox:2° semiconductors, Computer programs, Monolithic structures(Electronics), Analog to digital converters, Low costs, Low power, Deployment, Capacitors
IDENTIFIERS: 1802 Microprocessors, Multipliers, Suitched canacitors, PE62711N (U)

Switched capacitors, PE62711N A low cost, low power dissipation micro-signal

A low cost, low power dissipation micro-signal processor has been designed and built for application to deployed sensors. Using latest technology, state-of-the-art components, this microprocessor based system has been programmed, and demonstrated in performing 1024 point fast Fourier transforms (FFT's) on 8-bit input within one second, as well as a variety of associated data acquisition and control functions. All necessary functions for a self-contained, stand alone acoustic processor were incorporated in a 410 cu. cm. feasibility brassboard, dissipating an average of 50 mw. All essential components were either CMDS or CMOS/SDS. including the standard commercially available 1802 microprocessor, and, a special LSI multiplier required for expediting the computations needed for the FFT. Major hardware and software issues are discussed, followed by an exposition of emerging discussed, followed by an exposition of emerging technology IC's, leading to even smaller, lower cost, lower power dissipation processors.

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GENERAL ACCOUNTING OFFICE WASHINGTON DC PROCUREMENT AND SYSTEMS ACQUISITION DIV

DDC REPGR! BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

UNCLASSIFIED

Fina..cial Status of Major Federal Acquisitions. September 30, 1979.

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FEB 80 115P REPT. NO. GAO/PSAD-80-25

AD-A080 652

UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office.
Distribution Section, Room 1518, 441 G. St..
NW. Washingto.. DC 20548. (No copies furnished by
DTIC/NTIS). Document partially illegible.
SUPPLEMENTARY NOTE: Report to the Congress.
DESCRIPTORS: \*Costs, Inflation(Economics).
Acquisition, Government procurement, Weapon Systems, Federal budgets, Tables(Data)

This report concerns the financial status of major acquisitions of the U.S. Government, including acquisitions financed solely with Federal funds and those financed jointly with Federal. State, and other funds. Because of the numerous projects involved, we obtained explanations for cost growth involved, we obtained explanations for cost growth only for those weapon systems included on selected acquisition reports of the Department of Defense and for other projects having cost increases of 100 percent or more. Inflation, engineering, and quantity changes were identified as the major causes of cost growth. Sixty-four projects, estimated to cost \$16.5 billion, have been in process more than 20 years. Seven are more than 50 years old. The Congress may want to review these older projects to see if they are progressing satisfactorily.

AD-A080 652

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-4080 518

1/3 13/9

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS

Cost Analysis of a Holicopter Transmission and Drive Train. (U)

DESCRIPTIVE NOTE: Technical memo..

NDV 79 46P Mulliken.Richard F.;
REPT. NO. USAAVRADCOM-TM-80-D-2
PROJ: 1L162209AH76
TASK: 00

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Helicopters. \*Transmissions(Mecnanical), \*Drives, \*cost analysis, Tail rotors, Gears, Mecnanical components, Costs, Engineering drawings IDENTIFIERS: \*Drive trains, PE62209A, ASH76. (U) **WU248** (U)

A cost analysis was conducted on a transmission and drive train system from a single-engine helicopter with an imput of 1134 hp at 6500 rpm. Main rotor speed was 325 rpm. Details and subassemblies of this system were identified using the Army Technical Manual. Prices of spare parts were obtained from the Army Master Data File (AMDF). Irregularity in the prices found showed that it was impossible to identify specific cost drivers or to develop any valide cost baseline or to obtain valid comparative detail costs using this database. In view of this situation, plans to analyze a second sytem were abandoned. A detailed review of the data obtained strongly indicated that gears, forgings, and castings are the cost drivers in this system. Since all such systems employ components of similar nature and function, this indication is applicable to other transmission systems and should therefore be useful as an aid in directing cost-reduction efforts. Manufacturing approaches by reduction efforts. Manufacturing approaches by which costs on Such parts may be reduced are suggested. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGPAPHY SEARCH CONTROL NO. ZOMOT

AD-A080 196

12/2

LOGISTICS MANAGEMENT INST WASHINGTON DC

Statistical Risk Properties of the Logistic Support Cost Commitment.

(U)

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DEC 79 Collins. Dwight E. : REPT. NO. LMI-ML900 CONTRACT: MDA903-77-C-0370

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Logistics support. \*Cost estimates. \*Coerations research. Risk. Statistical analysis. Costs. Reliability. Design to cost. Life cycle costs. Cost models

In recent years, several new contractual In recent years, several new contractual arrangements have been devised to estimate, target, and track logistic support costs during the acquisition phase. One of these is a contractual mechanism known as a Logistic Support Cost Commitment (LSCC), sometimes referred to as a Support Cost Guarantee. The objective of the LSCC is to motivate the contractor to design his equipment to have reduced logistic support costs through increased reliability and middlesses. equipment to have reduced logistic support costs through increased reliability and maintainability (R&M) when fielded. This report documents research into the statistical properties of the LSCC. The LSCC utilizes one of a broad class of statistical estimators, which are complex mathematical functions of simpler estimators whose statistical properties are well known. In the LSCC case, the complex estimator is a cost function, and incorporates such simpler estimators as rates of occurence, durations of activity, and physical distribution of activity. It also includes constant cost rates. The research documented is primarily mathematical. It does not treat in-depth the numerous qualitative issues regarding LSCC use. (U)

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AD-A080 196

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A080 130 1/3 14/1

NOAH (J WATSON) INC FALLS CHURCH VA

Costs and Benefits of Requiring New Production of Older Aircraft Types to Meet Amended Noise Standards.

DESCRIPTIVE NOTE: Final rept.. SEP 79 75P Day.C. F. ;Studnolme.E.

CONTRACT: DOT-FA78WA-4192 MONITOR: FAA/EE 79-22

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Includes errata sheet dated 10 Jan DESCRIPTORS: \*Industrial production, \*Jet engine noise, \*Costs, Jet transport planes. Standards, Benefits, Operation

This report examines costs and benefits associated with requiring new production of older aircraft models to meet amended noise standards. Two cases are examined: (1) all aircraft produced after 1983 must meet a noise for after 3 and halfway between Stage 2 and Stage 3 inmits; and (2) all aircraft produced after 1985 must meet Stage 3 noise standards. The cost elements are combined and expressed as a change in direct operating costs in either cost-per-passenger mile or cost-per-aircraft mile, as appropriate. Noise benefits are estimated in terms of the change in area under a 100 EPNL contour resulting from the amended standards. (Author) (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A080 110 1/2

ARMY SAFETY CENTER FORT RUCKER AL

Survey of Forced and Precautionary Landing

(U)

DESCRIPTIVE NOTE: Technical rept. JUL /9 24P Neese.Thomas: Spezia.Emil :Kimel.G. D. : REPT. NO. USASC-TR-79-4

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft landings. Surveys.
Questionnaires. Costs. Cost analysis
IDENTIFIERS: \*Forced landings

(U) (U) A questionnaire survey was conducted to learn the costs of forced landings (F/Ls) and precautionary landings (P/Ls). The questionnaire elicited cost data in respect to (1) the effect each mishap had on the mission assigned the missap aircraft. (2) manhours lost by the crew and passengers. (3) manhours required to recover the crew. passengers. and aircraft. (4) time the mishap aircraft was unavailable for flight. (5) manhours required to make the aircraft flyable, and (6) the components that malfunctioned to cause these mishaps. The broad and obscure costs revealed by the survey are that maifunctioned to cause these mishaps. The broad and obscure costs revealed by the survey are sufficient to justify the initiation of a concerted affort to prevent the causes of these mishaps. Prevention of the causes of these mishaps will allow aviation units to operate more efficiently, i.e., allow them to maintain a higher state of combat readiness. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 5/3

AD-A080 089

5/1

ANALYTIC SCIENCES CORP ARLINGTON VA

Modeling Navy Ship Acquisition.

(U)

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DESCRIPTIVE NOTE: Final rept. on Phase 2, part 1, P Towle, William J. : Moore. DECRIPTIVE ROLE: FINAL PEPE DEC 79 73P Towl David H. ; O'Brien, Mike J. ; REPT. NO. TASC-TR-1337-2 CONTRACT: N00014-78-C-0436

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval procurement. \*Cost models. Algorithms, Computerized simulation, Naval vessels, Shipbuilding, Allocations, Contract acministration, Naval planning, Shippards, Productivity, Market research, Lagrangian functions, Inflation(Economics), Data bases, Computer programming

During the first phase of this contract. TASC performed a preliminary analysis of the cost and feasibility of developing a model to aid in achieving an efficient work load distribution in the shipbuilding industry through competitive allocation. This included a detailed investigation of the planning and procurement methods currently used by the Navy as well as considering the feasibility of developing an analytic tool to aid the Navy in achieving an efficient work load distribution in the shipbuilding industry. The present study provides continuing background analyses to refine the equation set, to improve the validity of the analytic approach, and to demonstrate the feasibility of the data requirement for the model. Background analyses were performed on: (1) The extent of planning problems which result from government furnished equipment, subcontracts and material: (2) The influence of government procurement strategy and contract form on the price and competitive relationships; and (3) The importance of commercial production and repair and conversion with a view to proper incorporation of these effects in the model for Navy planning purposes; and (4) Competition in the industry. During the first phase of this contract. TASC (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A079 804

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GENERAL ACCOUNTING OFFICE WASHINGTON DC PRUCUREMENT AND SYSTEMS ACQUISITION DIV

15/5

The Air Force Should Recover Excess Costs of Prior F-15 Contracts and T. Action to Save Costs on Future F-1: Contracts.

OCT 79 31P REPT, NO. GAD/PSAD-80-4

#### UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office. Distribution Section. Room 1518. 441 G. St. Washington. DC 20548 (No copies furnished by DTIC).

DESCRIPTORS: \*Cost overruns. \*Cost analysis. Profits, Contracts, Aircraft equipment, Air Force procurement, Cost effectiveness, Jet fianters

IDENTIFIERS: Production materials. F-15 aircraft

(U)

In reviewing production material costs proposed by the McDonnell Douglas Corporation. St. Louis. Missouri. we found that the target cost of Contract F33657-77-C-0200 is overstated by about Contract F33657-77-C-0200 is overstated by about \$2.4 million because the contractor did not use Current. accurate. and complete cost or pricing data to negotiate production material costs. Also, since the contractor's profit was added to this overstatement, about \$2.7 million excess Cost to the Company will accult Government will result.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

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GENERAL ACCOUNTING OFFICE WASHINGTON DC FEDERAL PERSONNEL AND COMPENSATION DIV

Defense Use of Military Personnel In Industrial Facilities, Largely Unnecessary and Very Expensive.

(U)

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MAY 79 47P REPT. NO. GAO/FPCD-79-10

## UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office. Distribution Section. Room 1518, 441 G Street. NW. Washington. DC 20548 (No copies furnished by DIIC). SUPPLEMENTARY NOTE: See also Rept. no. FPCD-76-7. DESCRIPTORS: \*Job analysis, \*Cost analysis, Industries, Military personnel, Industrial plants. Comparison, Department of Defense, Civilian personnel

In April 1976 a report 'Maintaining a Military Presence in an Industrial Environment,' was issued. That report, a case study of military staffing at the Naval Meapons Support Center, Crane, Indiana (Crane), pointed out the cost savings and other advantages of using civilians instead of military personnel in an industrial environment. It also pointed out that the Department of Defense (DOD) operates a large number of other Commercial and industrial military support activities. The report estimated that about 10,000 military personnel were assigned to such activities even though the work forces were predominantly civilian. In view of the findings at Crane, it is recommended that the Secretary of Defense correct the situation and review all other such activities for potential reduction of military personnel. personnel.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A079 495 1/5 9/2

YANG (NAI C) AND ASSOCIATES NEW YORK

Nondestructive Evaluation of Airport Pavements, Volume II. Operation Manual for PAVBEN Program at TCC.

DESCRIPTIVE NOTE: Final rept. SEF 79 124P Y
CONTRACT: DOI-FA77WA-3964
WONITOR: FAA-RD 78-15 Yang.David: 78-154-2

# UNCLASSIFIED REPORT

Availability: Document partially illegible. SUPPLEMENTARY NOTE: See also Volume 3. AD-A079 591. DESCRIPTORS: ESCRIPTORS: \*Pavements. \*Runways. \*Computerized simulation. Cost analysis. Benefits. Computer programs. Input. Output. Subroutines. Programming manuals
IDENTIFIERS: PAVBEN computer program. Cost benefit (U) (U) analysis

Cost/benefit analysis of alternative pavement design is the primary goal of the PAVBEN program at the Transportation Computer Center (TCC) in Washington. D.C. The integrated system is data independent based on defined mathematical models and operation logic. The program is written in a high level language FCRTRAN IV. The job inputs consist of: (1) NDT field data: (2) types of existing pavements: (3) facility classifications: (4) demand forecast: and (5) local cost values. The default system contains all design data for: (1) 15 air transports: (2) 9 FAA regional cost values: (3) 8 types of pavement design: (4) 22 layer components: (5) 20 types of existing pavement: land (6) universal mechanistic design model. The major outputs will be: (1) NDT inventory file: (2) present functional life: (3) computed engineering data: (4) pavement thickness and cost data: and (5) cost/benefit analysis for four new pavements. three overlays and three keel constructions. The operation of PAVBEN program involves extensive use of data storage. filing technique and computed data inputs. The Current operation program and this manual are prepared for the execution on computer hardware Cost/benefit analysis of alternative pavement prepared for the execution on computer hardware system at TCC.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A079 293

20/4 1/3

ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT NEUILLY-SUR-SEINE (FRANCE)

Low Cost Aircraft Flutter Clearance.

DESCRIPTIVE NOTE: Conference proceedings. SEP 79 115P SEP 79 115P REPT. NO. AGARD-CP-278

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Meeting of the Structures and Materials Panel (48th), 4 Apr 79. Structures and Materials Panel (48th), 4 Apr 79, Williamsburg, VA.
DESCRIPTORS: \*Aircraft, \*Flutter, Low costs, Lightweight, Gliders, Remotely piloted vahicles, Requirements, Vibration, Degrees of freedom, Stability, Test methods, Velocity, Wings IDENTIFIERS: Light aircraft

Light aircraft and gliders are constructed by small Light aircraft and gliders are constructed by small manufacturers who do not have the manpower or financial resources to evaluate flutter safety with the costly modern sophisticated test and analysis techniques available to large companies. Future low cost reconnaissance, liaison, RPV and other military aircraft could be designed and built by such mall aircraft warufacturers. This Specialists military aircraft could be designed and built by such small aircraft manufacturers. This Specialists Meeting was therefore held to evaluate the usage of low cost aircraft flutter clearance procedures. Some results occurring from such procedures (weight efficiency, safety, flight incidents, and overall costs) were discussed relative to those from methods using advanced state-of-the-art. The relative technological-financial position of the small lightweight aircraft manufacturer was also discussed. The difficulties that still exist and the progress to be expected in the next few years were exposed. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTPOL NO. ZOMOT

AD-A079 038

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DIRECTORATE OF AEROSPACE STUDIES KIRTLAND AFB N MEX

14/1

COEFUV: A Computer Implementation of a Generalized Unmanned Venicle Cost Model.

(U)

DESCRIPTIVE NOTE: Final rept..
OCT 78 78P Bomber .Thomas M.: Feuchter.
Christopher A.:
REPT. NO. DAS-TR-78-4

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Remotely piloted venicles. \*Costs. \*Cost effectiveness. \*Computerized simulation. Unmanned. Models. Computer programs. lnput. Output. Tactical warfare IDENTIFIERS: CDEFUV(Cost Effectiveness of

Unmanned Venicles)

(0) (U)

This document summarizes a method of determining the cost and cost effectiveness of ground-launched. recoverable unmanned airborne vehicle (e.g., remotely piloted vehicle) operations in a tactical environment. The inputs and cutputs of a computer code implementing the methodology are described in detail and a listing of the code is presented. detail and a listing of the code is presented. (Author) (U)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A078 793

14/1 9/2

AIR FORCE AVIONICS LAB WRIGHT-PATTERSON AFB OH

Application of the RCA PRICE-S Software Cost Estimation Model to Air Force Avionics Laboratory Programs. Revision.

DESCRIPTIVE NOTE: Final technical rept. Jan 78-Jul 79.
OCT 79 51P James, Inomas G. Jr.;
Ferens, Daniel V.;
REPT. NO. AFAL-TR-79-1164

REPT. NO. AFAL-TO PROJ: 2003, 6095 TASK: 09, 15

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of Rept. no. AFAL-TM-78-25.
DESCRIPTORS: \*Cost models, \*Computer program verification, \*Avionics, Computer programs, Cost effectiveness, Life cycle costs, Configuration management, Simulators
IDENTIFIERS: Price-S software cost estimate model, WUAFAL69951502, PE62204F, WUAFAL20030902

(U)

This report covers work conducted in-house by the This report covers work conducted in-house by the System Evaluation Group (AAA-3). Avionic Systems Engineering Branch. Air Force Avionics Laboratory, Wright-Patterson AFB. Ohio 45433. This work was a calibration and validation of the proprietary RCA Corporation PRICE-S software development cost model to four AFAL software programs. The results of the study are that PRICE-S appears to work well for Air Force Avionics Laboratory programs and more validation/Calibration studies should be done. (Author)

(Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-4078 656 14/1 9/2

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND IL DECISION MODELS DIRECTORATE

Venture Evaluation and Peview Technique (VERT). Users'/Analysts' Manual.

DESCRIPTIVE NOTE: Final rept. NOV 79 100P Moeller.Gerald: REPT. NO. DRSAR-DM-T905

UNCLASSIFIED REPORT

DESCRIPTORS: "Cost models. "Computerized simulation. "Programming Manuals. "Cecision Making. "Linear programming. Adaptive systems. Symbols. Networks.

Technique). Risk analysis. Schedule risks.
Performance risks. Users manuals. Capital

requirements. Venture evaluation (U)

This Users'/Analysts' Manual provides information in sufficient detail to permit installation and application of the VENTURE EVALUATION AND REVIEW TECHNIQUE (VERT). VERT is a Computerized, mathematical oriented simulation network technique designed to model decision Computerized, mathematical oriented simulation network technique designed to model decision environments under risk. Historically. VERT has been used crincipally to assess the risks involved in the undertaking of a new venture, as well as in the estimation of future capital requirements, control monitoring, and overall evaluation of on-going projects, programs, and systems. Modeling is accomplished with a small set of easily comprehended operators which readily facilitates the structuring of a symbolic pictorial network layout of the system under study. VERT is an adaptive tool, thereby allowing the scope and level of abstraction to rest almost entirely in the hands of the analyst. Thus, modeling can be accomplished on a one-for-one basis, whereby one real world event and activity is correspondingly represented symbolically as one event and activity in the VERT network; or, modeling can also be accomplished on a rompressive basis whereby a multitude of real world events and activities are compressed into the symbolic representation of a few events and activities in the VERT network.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A078 298 5/1 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF

AirCraft Airframe Cost Estimation Using a Random Coefficients Model. .01

DESCRIPTIVE NOTE: Waster's thesis. DEC 79 65P Hinch, James H. ; REPT. NO. AFIT/GOR/SM/79D-4

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Airframes, \*Cost estimates. DESCRIPTIONS: \*Affiremets, \*cost estimates.

Mathematical models, Mathematical prediction.
Learning curves, Coefficients, Random variables 
Parametric analysis, Theses
IDENTIFIERS: Random coefficients models

Previous studies into aircraft airframe acquisition costs have either not dealt with the learning phenomenon or have assumed that the learning curve slope is the same for all types of aircraft. However, some results have indicated that this is not truly the case. The random coefficients model, as amplied in this study, provides a framework in which the slopes can differ by estimating their values based on other characteristics of the aircraft. This method thus has the advantage over other techniques of being able to predict the actual learning curve slope more accurately before any production takes place, and thus yield more reliable cost estimates. For that reason, it represents a significant advance in the state of the art-of parametric airframe cost estimation. ('uthor) (u)

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CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO?

AD-A078 279 5/3 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Pricing for U.S. Army Technical

(U)

Assistance Field Team (Tagt).

DESCRIPTIVE NUTC: Washer's thesis.

SEP 79 55P & Brown.Terry E. :

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Meditary assistance, \*Finance, \*Cost estimates, Fortagn, Policies, Accounting, Teams(Personnel), Army personnel, Deployment, Overseas, Military dependents, Relocation, Field army, Theses
IDENTIFIERS: \*Pricing, Foreign military sales, TAFT(Technical Assistance Field Teams) (uì (U)

The Technical Assistance Field Team (TAFT) concepf is a relatively new method of providing military services to foreign Countries under the Foreign Militar; Sales (FMS) program.

Because of this newnos, the policies and procedures governing the deployment of an U.S. Army TAFT are still being formulated and revised. One such area is pricing. This document provides a prief overview of FMS, including the purposes, authority, and responsibilities for its administration. The authorized usage and pricing involved in the deployment of an U.S. Army TAFT are discussed. This study attempts to consolidate aud/or provide methods that may be used to price TAFT deployments. Because of the lack of sufficient data in several area,, the pricing methods discussed are conservatively biased.

Recommendations are presented to refine further the price estimation methods discussed. (Authori The TeChnical Assistance Field Team (TAFT) Drice estimation methods discussed. (Authori

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 5/3

AD-A078 272 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

The Cost of Money on Assets Under Construction and Defense Contracting.

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DESCRIPTIVE NOTE: Waster's thesis. SEP 79 74P Pittman.G Pittman.Glenn James ;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Accounting, Cost analysis, Construction, Contracts, Costs, Department of Defense, Allocations, Theses IDENTIFIERS: Capitalization

On May 5, 1978, the Cost Accounting Standards Board issued a proposal containing two possible diternatives for the allocation of the cost of money associated with assets under construction. Alternative A would require capitalization unile Alternative B would modify a current standard to include the interest on construction. This thesis examines the nature of the commitment by a sample of government contractors to construction-im-progress and the interest cost associated with this level of investment. It them examines and evaluates the cost streams associated with each of the alternatives and a hypothetical asset under construction account. It a hypothetical asset under construction account. It was determined that by using present value, and at reasonable discount rates, the differences between the two alternatives could be considered immaterial. (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOWOT

A0-A078 232 5/: 15/3

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM

The Effect of Price Competition on Weapon System Acquisition costs.

(2)

(U) 423

DESCRIPTIVE NOTE: final rept..

SEP 79 252P Daly George G.:Gates .

Howard P.:Schuttings.dames A.:

REPT. NO. ID4-P-1435
CCNTRACT: WD1993-79-C-0202
MONITOR: IDA/HO.SBIE 79-21585.AD-£500 109

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Military procurement. \*Keapon systems. \*Cost analysis. \*Costs. Accuisition. Policies. Life cycle costs. Savings. Cost estimates.
Contract administration. Yechnology transfer
IDENTIFIERS: \*Prices. \*Competition. LPN-DARPA-

This paper examines the impact of price competition on weapon systems acquisition. The multidimensional impact of competition on price and non-price aspects of weapon system production and acquisition are discussed. The importance of cost quantity relationships for measuring the effect of competition on price and the theoretical basis of those relationships are reviewed. The problems of and the tachniques for accomplishing the transfer of technology associated with competition for production Contracts are briefly outlined. Frevious estimates of savings due to competition are reviewed, and their underlying sethosology criticized. It is processed that the introduction of competition be analyzed as an investment. The eventual reductions in Procurement Costs must be balanced against the initial costs of introducing competition and establishing a second source. The opportunity cost of government funds should be incorporated by calculating the net discounted present value on the rate of return of introducing competition for the Procurement of a particular system. Finally.
Conclusions and policy recommendations are presented.
Dased upon both empirical analyses and qualitative findings from interviews. (Author) (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A078 155

14/1 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Costs and Decision-Making Processes in Non-Profit, General-Purpose Hospitals.

אבר 79 169P Todd, Hamilton Smitn . Jr. ; Rice.Stephen Charles ; DESCRIPTIVE NOTE: Master's thesis SEP 79 169P Todd, Hami

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis, \*Management planning and control, Decision making, Control, Costs, Hospitals, Physicians, Management, Health surveys, Theses surveys, Theses
IDENTIFIERS: Cost control, General-purpose

A literature survey was conducted on the relationship between hospital costs and decision-making processes. Costs are seen as consequences of decisions made by four groups within the hospital setting: (1) board of trustees; (2) administrator; (3) medical director; and (4) medical staff. These sets of organizational players are studied in terms of functions and responsibilities, compatibility in professional bureaucracy, powers and influences, and goals. Attempts are made to discern what kinds of decisions are made by each group and what impact those decisions will have on costs. The authors conclude that cost control mechanisms can focus on either resource availability or resource utilization either resource availability or resource utilization. The former is seen as multi-influenced while the latter is essentially controlled by physicians. An argument is made for the need to internalize cost information into the physician's clinical judgments. judgements. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A078 053

14/1

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

Predictive Operations and Maintenance Cost Model. Volume II.

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DESCRIPTIVE NOTE: Final rept. Jul 78-Jun 79.
AUG 79 377P Feltus.Erasmus E.: AUG 79 377P Fe CONTRACT: F33615-77-C-1105 PROJ: 2003 TASK: 09

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MONITOR: AFAL TR-79-1120-VOL-2

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A078 052 and AD-A059 164, AD-A059 516 and AD-A059 354. DESCRIPTORS: -Cost estimates. \*Cost models. Statistical analysis. Regression analysis. Life cycle costs. Air Force equipment. Avionics. Data

DENTIFIERS: LRU(Line Replaceable Units). WUAFAL20030912. PE62204F

This report describes a model which can be used to estimate the operations and support costs of avionics line replaceable units (LRU's). The model relates available LRU design parameters to operations and support costs using various cost estimating relationships. This document is Volume II of the final report which describes the development of the revised version of the Westinghouse Avionics the revised version of the Westinghouse Avionics Laboratory Predictive Operations and Support (ALPOS) cost model developed in 1977 -1978 and described in AFAL-TR-78-49. This revised version, known as ALPOS II.has a more expansive data base than ALPOS and includes digital avionics s, tems not included in ALPOS. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A078 052 14/1 12/1 5/1

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

Predictive Operations and Maintenance Cost Model Volume I. (U)

DTSCRIPTIVE NOTE: Final rept. Jul 78-Jun 79.
AUG 79 282P Wienecke.E. Louis , III ;
Feltus.Erasmus E. ;
CON(RACT: F33615-77-C-1105 PROJ: 2003 TASK: '09 MONITOR: AFAL TR-79-1120-VOL-1

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A078 053 and AD-A059 164, AD-A059 516 and AD-A059 354. DESCRIPTORS: \*Cost estimates, \*Cost models, \*Predictions, \*Statistical analysis, Life cycle costs, Logistics support, Avionics, Operation, Maintenance, Experimental design, Data acquisition, Data bases, Regression analysis, Validation, Replacement IDENTIFIERS: WUAFAL20030912, PE62204F

This report describes a model which can be used to estimate the operations and support costs of avionics line replaceable units (LRU's). The modul relates available LRU design parameters to operations and available LRU design parameters to operations and support costs using various cost estimating relationships. This docment is Volume I of the final report which describes the development of the revised version of the Westinghouse Avionics Laboratory Predictive Operations and Support (ALPOS) cost model developed in 1977-1978 and described in AFAL-TR-78-49. This revised version, known as ALPOS II, has more expansive data base than ALPOS and includes digital avionics systems not included in ALPOS. systems not included in ALPOS. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A073 004 15/5 14/1

SYSTEMS CONSULTANTS INC WASHINGTON D C

Manufacturing Technology Cost Drivers Study of Aircraft Rework, Overhaul and Remanufacture Processes. Volume I. (U)

DESCRIPTIVE NOTE: final rept. 19 May 78-31 Jan 79.

JAN 79 121P Harkins.William D. :
CONTRACT: N00244-78-C-0288

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval equipment. \*Maintenance. \*Cost analysis. Naval aircraft. Guided missiles. Electronic equipment. Production. Machining. Naval shore facilities IDENTIFIERS: \*Depot level maintenance. Overhau:. Remanufacture. Cost drivers (0) (0)

This study covered the aircraft rework, overhaul This study covered the aircraft rework, overhaul and remanufacture processes at the six Naval Air Rework Facilities (NAVAIREWORKFACS) and identified those processes which were most costly in the performance of organic naval air depot level maintenance. Concerned with the logistical aspects of Naval Weapons Systems and the need to increase productivity within the Naval Air Industrial Community, the study focused on application opportunities related to manufacturing processes, methods, techniques and equipment application opportunities related to manufacturing processes, methods, techniques and equipment associated with manufacturing technology functional categories. For the items being reworked, those elemental or sub-elemental operations which were most costly (viz. cost drivers) were identified, ranked by aggregate cost for all NAVAIRREWORKFACs, assembled within a data base, and presented in the Final Report. Conclusions and recommendations resulting from the study are presented. (Author) (u) from the study are presented. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 70MO7

AD-A077 943

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ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ALEXANDRIA VA

A Methodology and Analysis for Cost-EffcCtive Training in the AN/TSQ-73 Missile Minder.

DESCRIPTIVE NOTE: Research memo.. FEB 78 63P Jorgensen.Charles C.; REPT. NO. ARI-RM-77-26 PROJ: 20763743A771

# UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTERS: \*Army training, \*Training devices,
\*Air defense, \*Fire control systems, \*Guided
missile personnel, Uperational effectiveness, Cost
effectiveness, Methodology, Policies, Decision
making, Surface to air missiles
IDENTIFIERS: AN/TSQ-73, Missile minders,
PE63743A, AS771

The methodology presented in this paper visualizes the problem of cost effectiveness in the following ways: First, it assumes an average level training developer who may or may not be aware of the latest psychological training options available to him and who may or may not be aware of all current managerial policies that affect his choices. Second, it assumes that TRADOC and the training manager have policies which they expect to see reflected in cost and operational effectiveness analysis (COEA) decisions. Third, the COEA analyst may or may not have access to a complete Train Up Study (TUS) from which to refine his decisions. Fourth, he is probably under time pressure to supply alternate programs as training input for one component of a complete COEA analysis. Fifth, he has a limited number of support personnel.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOZ

AD-A077 725 5/1 13/8 9/2

REPT. NO. AFIT-LSSR-11-79A

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

An Investigation of Changes in Direct Labor Requirements Resulting from Changes in Avionics Producion Rate.

DESCRIPTIVE ACTE: Master's thesis,
JUN 79 172P Stevens .David Y. :
Thomerson.Jimmie :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Production rate. Industrial production. Resource management. Learning curves. Labor. Costs, Mathematical prediction. Computerized simulation. Hypotheses.
Mathematical models. Linear regression analyses.
Statistical tests. Avionics. Jet fighters.
Military procurement. Theses
IDENTIFIERS: Prices

This research investigated the effects on direct labor requirements by exogenous changes in production rate in the ARC 164 radio and the Computer Signal Data Converter avionics production programs. The standard learning curve model was modified by adding a production rate variable using test data from the F-4. F-102. and KC-135 programs. Within the modified model, the production rate showed a significant and inverse relationship to direct labor requirements. Moreover, this modified model was more accurate in predicting direct labor requirements than was the standard learning curve model. This research extended the modified model to avionics, validated it there, and confirmed its superior predictive ability, both statistically and subjectively. Therefore, this model is recommended for use as a predictor of direct labor requirements in ongoing avionics production programs. The program was modified to include options for predictive ability tests and for projection sensitivity matrices. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A077 475 1/3 14/2

BOEING AEROSPACE CO SEATTLE WA

New Remotely Piloted Vehicle Launch and Recovery Concepts. Volume I. Analysis. Preliminary Design and Performance/Cost Trade Studies.

DESCRIPTIVE NOTE: SCRIPTIVE NOTE: Final rept. Mar 78-Mar 79. JUN 79 260P Baumgartner ,Steven J. : Brister,James G. ;Rajpaul, Vinod K. ;Yurczyk,

Roger F. : CONTRACT: F33615-78-C-3404

PROJ: 2402 TASK: '01

MONITOR: AFFOL TR-79-3069-VOL-1

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A076 611. DESCRIPTORS: \*Remotely piloted vehicles, \*Launching, \*Recovery, \*Air cushion vehicles, Systems analysis, Experimental design, Dynamic tests. Performance tests, Cost analysis, Trade off Performance tests, Cost analysis, Irade off analyses, Bags, Computer programs, Landing, Steady state, Acquisition, Survival(General), Requirements, Weather, Flight testing, Maintainability, Reliability, Vulnerability, Life cycle costs, Simulation, Ground support equipment
IDENTIFIERS: Dynamic analysis, Air bags. (U) DENTIFIERS: Dynamic analysis, Air bags. WUAFFDL24020108, PE62201F

Dynamic analysis, preliminary design, and performance/cost trade studies of air bag skid and air tushion concepts for launch and recovery of Boeing and Rockwell advanced RPV concepts-have Boeing and Rockwell advanced RPV concepts—have been conducted. Dynamic analysis was performed using the six degree—of-freedom computer program EASY. Dynamic simulations included perturbations to steady state flight, landing, and takeoff simulations. Launch and recovery Concepts investigated were air bag skid system, air cushion recovery systems, integrated air cushion system, and air cushion launch platform. Performance/cost trade study factors investigated were complexity, fuel requirements, adverse weather capability, ground equipment and facility requirements,

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UNCLASSIFIED DDC REPORT BIBLIOGPAPHY SEARCH CONTROL NO. ZOMOT

AD-A077 373 1/3

UNITED TECHNOLOGIES CORP STRATFORD CT SIKORSKY AIRCRAFT

Advanced Structures Concepts R and M/Cost

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DESCRIPTIVE NOTE: Final rept. Oct 77-Feb 79.
SEP 79 237P Cook .Tnomas N. :Kay.Bruce SEP 79

F.: REPT. NO. SER-510016 CONTRACT: DAAJ02-77-C-0061 PROJ: 1L262209AH76 TASK: 00

MON1/OR: USARTL TR-79-16

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Helicopters. \*Airframes. \*Composite joints, Reliability, Aircraft mainterance, Fiber reinforced composites, Sandwich construction, Honeycomb cores, Repair, Damage, Impact, Life cycle costs IDENTIFIERS: PE62209A. ASH76. WU215

Recent programs have investigated various aspects of the design and manufacture of advanced composite airframe structures for helicopters. Evaluation of the reliability and maintainability (R and M) and operating cost characteristics of the evolving design concepts has been limited, however. The objective of this program has been to assess the overall potential of advanced composite structures from the standpoint of R and M and life-cycle cost. A survey was made of in-service experience with helicopter airframe structures, concentrating particularly on bonded structures and composite helicopter airframe structures, concentrating particularly on bonded structures and composite materials. The surveys included visits to Army helicopter depots where typical types of damage were examined and discussed. A review was also made of published data on composites in use with fixed-wing aircraft. It was established that with the exception of some secondary simulative, experience with composites in helicopter airframe applications is very limited, and that quantitative reliability factors cannot yet he established. However, it was factor's cannot yet be established. However, it was concluded that the majority of failures with advanced composites will occur from external causes. (U)

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SEARCH CONTROL NO. ZOMO? DDC REPORT BIBLIOGRAPHY

AD-A077 331

VIRGINIA POLYTECHNIC INST AND STATE UNIV BLACKSBURG DEPT OF AEROSPACE AND OCEAN ENGINEERING

Analysis of the Cost of Variable Workloads on Shipbuilding.

DESCRIPTIVE NOTE: Final rept. 1 Apr 78-1 Oct 79.
NOV 79 250P Magnuson .Allen H. :Terry.
Robert W. :
REPT. NO. VPI-AERO-103
CONTRACT: NO0014-78-C-0411

UNCLASSIFIED REPORT

DESCRIPTORS: \*Shippuilding, \*Cost analysis, \*Management planning and control, Job analysis, Allocations, Transfer functions, Variables, Operations research, Value engineering, Plannin (8)

The effect of shipyard workload variation on the cost of building ships has been analyzed. The results of four efforts are presented. The first major effort consists of an analysis of the effect of work density (i.e. worker crowding) on shipbuilding productivity and cost. The results show that an optimum least cost construction time and work-force productivity and cost. The results show that an optimum least cost construction time and work-force level exist as a result of a tradeoff batween work density effects and fixed costs. The second effort was an attempt to identify causes of shipyard productivity variation based on interviews with shipyard supervisory personnel. The third effort involved development of a framework for estimating transfer functions to describe how workload variation affects cost. This work is to be based on historical production and cost data. A description of adapting the Box-Jenkins forecasting methodology to the problem is presented. The fourth effort concerns development of a shipyard planning system to minimize cost of adjusting to workload variations. A review of current approaches to multi-resource/multi-project planning models is given along with a proposed decompostion of the planning problem into strategic and tactical components. The strategic or long-range planning deals with aggregate issues such as organizational goals, long-range manpower planning and facilities expansion.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A077 264 5/9

GENERAL ACCOUNTING OFFICE WASHINGTON DC FEDERAL PERSONNEL AND COMPENSATION DIV

DOD 'Total Force Management' -- Fact or Rhetoric.

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JAN 79 36P REPT. NO. GAC/FPCD-78-82

UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office.
Distribution Section. Room 1518. 441 G St. NW.
Washington. DC 20548 (No copies furnished by DTIC).
SUFPLEMENTAR: NOTE: Report to the Congress.
DESCRIPTORS: \*Personnel management. \*Manpower.
Costs, Guidance. Cost effectiveness. Department
of Defense. Air Force. Management information IDENTIFIERS: Force management. Military costs

Rising manpower costs and increasing competition for funds underscore the importance of good management within the Department of Defense (DDD). Congressional interest in reducing military costs without sacrificing readiness further illustrates the need for competent management of the DDD work force. The quidance that is available does not acknowledge constraints and is vaque and incomplete, generally addressing only segments of the total manbower resources. Further, the quidance requires no trade-off analyses to justify the type of manpower requested and provides little information on cost considerations other than directing the services cost considerations other than directing the service to seek the least Costly manpower program. Consequently, each service has developed its own manpower systems with its own policies and sets of logic. However, the Air Force is the only service with a total force management system: the Army and Navy have only recently started to develop one. When the latter two have such a system, DOD will have made a major stop toward achieving effective total force management. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A077 166 15/5 14/1

ARMY ENGINEER STUDIES CENTER WASHINGTON DC

US Army, Air Force, and Navy RPMA Consolidation in Panama. A Cost-Benefit Analysis. Volume II.

(U)

(8)

OCT 79 264P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A077 165. '
DESCRIPTORS: \*Military facilities. \*Cost analysis.
Joint military activities, Management planning and
control. Panama, Savings. Army Corps of
Engineers. Air Force. Army, Navy

This annex and its appendixes provide background information about the Air Force, Army, and Navy and their current method of real property maintenance activity (RPMA) operation (CMO). The annex provides a geographical/physical perspective of the installations under consideration. Appendixes C-1 and C-2 discuss the services current operations and workload and contain a discussion of the installation support provided. Appendix C-3 presents an overview of the current RPMA reporting procedures and the necessary considerations for consolidation actions. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT

AD-A077 165 15/5 12/1

ARMY ENGINEER STUDIES CENTER WASHINGTON DC

US Army. Air Force. and Navy RPMA Consolication in Panama. A Cost-Benefit Analysis. Volume I.

DESCRIPTIVE NOTE: Final rept. Jan-Sep 79.
SEP 79 118P Copper Gerald E. SEP 79 118P Cooper Gerald E.: Flowers . George A.: Underwood .Elton M.: Halayko . Robert H. :Grieco.Ralon :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-Au.7 166. DESCRIPTORS: \*Military facilities. \*Cost analysis. Maintenance nanagement. Panama. Feasibility studies. Savings. Economics. Cost effect ! veness IDENTIFIERS: RPMA(Real Property Maintenance Activities)

This OSD-directed study determined the feasibility of consolidating real property maintenance activities (RPMA) for all services in the Panama Canal Zone. It considered feasibility with regard to geographic, functional, and economic factors. It applied the continuing objective of DOD policy and quidance which is to ensure that RPMA at military installations is consolidated where such action is cost effective and does not result in mission impairment. The study showed several approaches to consolidation to be feasible though hardly equal. One alternative, a single manager concept, was found superior to the others. However, it was recommended for implementation only if tied to a longer-term goal of consolidating and standardizing all Base. Operating Support (BCS) for the three services. Because of celays in working out Treaty details and Treaty-induced turbulence in general. This OSD-directed study determined the and Treaty-induced turbulence in general.
implementation of the RPMA phase of 30S
consolidation should be postponed for from 1 to 2
years. This evolutionary approach to all 80S will
minimize short-term transition difficulties. maximize
long-term savings to DOD in Panama, and set a
standard for much wider application later. (Author (U)

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AD-A077 165

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A077 064 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING

Application of a Bayesian Approach to (U) Updating Airframe CERs.

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 179P Dietrich.Walter D.;
REPT. NO. AFIT/GSM/SM/76D-30

UNCLASSIFIED REPORT

DESCRIPTORS: \*Airframes. \*Cost estimates. \*Mathematical prediction, Procurement, Data bases. Bayes theorem, Regression analysis. Theses IDENTIFIERS: \*Cost estimating relationships

This study investigates a Bayesian approach for developing a parametric equation which will estimate the recurring cost of the next lot/unit of an airframe program. Recurring Costs are predicted because definitionally these costs are expected to reflect the cost for a followen production unit. Although the data base used for this study consisted of production cost information, the consisted of production cost information, the Bayesian approach may be useful for providing a parametric estimate of production cost using recurring tosts from a prototype effort. However, until definitional problems associated with separating engineering and tooling costs into recurring and nonrecurring categories are resolved, predictions of production or next unit engineering and tooling costs will be marginal. Because of the definitional problem, total Cost, (nonrecurring and recurring) was used in this study to develop Bayesian updated CERs for the engineering and tooling categories. tooling categories. (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A076 981 14/1 17/7

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING

A Study of Two Avionics Life Cycle Cost Models and Their Applicability in the Communications-Electronics-Meteorological foriconers.

(U)

DESCRIPTIVE NOTE: Master's thesis. SEP 79 57P Drobot .Nicholas J. : SEP 79 57P Jonnson Martin H. ; REPT. 'NO. AFIT/GSM/SM/79S-5

UNCLASSIFIED REFORT

DESCRIPTORS: \*Cost models. \*TACAN. \*Life cycle Costs. Communication equipment. Avionics. Logistics support. Navigational aids. Military procurement. Flow charting. Theses

(U)

This study determines the applicability of Life Cycle Cost (LCC)/Logistic Support Cost (LSC) models in the CEM environment. The scope of this study addresses two of the models identified (LSC, PRICE) with respect to three Air Force TACAN systems. A methodology is developed to evaluate each model bacsd on the five desirable model valuate each model bases on the five desirable modenancteristics; availability of input data. validity, sensitivity, completeness, and documentation. The results presented are also framed within the above model characteristics. The most important model characteristic, validity, is Accessed by comparison with an AFCS cost study of NAVAIDs equipment. Based on the methodology, the results indicate that both models are applicable 'n the present and future CEM environment.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A076 924

AIR FORCE INST OF TECH #RIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Model for Air Force Institute of Technology Programs. fin

DESCRIPTIVE NOTE: Master's thesis, SEP 79 170° Cox, John R. . Jr. ; Hotcaveg, Kenneth J. ; REPT. NO. AFIT-LSSR-18-798

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost models. \*Cost analysis. Forecasting, Education, Schools, Air Force, Accumulation, Theses (U)

This research developed a cost model to facilitate the accumulation of the full costs of individual AFIT education programs with fiscal year 1977 and 1978 data used to illustrate the model. Cost 1978 data used to illustrate the model. Cost objectives, within the AFIT schools and programs, were identified for assignment of costs. Elements of cost applicable to the cost objectives were identified, defined, and categorized as direct, indirect, and other (student pay and allowances). The indirect costs of education were further subcategorized as AFIT indirect, base support, and command overhead. An additional cost category of unfunded retirement was included as a separate cost element. Using these cost categories, the cost per student week for each cost objective was determined. The modular composition of the cost model provides a high degree of utility, permitting the user to delete cost components if less than a full cost profile is desired. The model permits comparison and analysis of cost components, either in total cost and analysis of cost components, either in total cost or in cost per student week. Additionally, the model provides the basis for cost analysis as expense data become available in future years. Finally, the model provides a framework useful for analyzing costs of other educational architical (Austra) of Other educational activities: (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A076 833

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NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Main' mance Surcharce for Range Use at the Pacl IC Missile Test Center.

(U)

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DESCRIPTIVE NOTE: TE: Waster's thesis. 107P Corbett.Ja SEP 79 Corbett.James T. :

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Launching sites. \*Maintenance management. \*Costs, Maintenance. Ranges(Facilities), Income. Finance. Communication equipment. Telemeter systems. Command and control systems. Search radar. Radar tracking. Allocations. Treses IDENTIFIERS: Pacific Missile Test Center

The Pacific Missile Test Center, PMTC, is utilized by various DOD components to test and evaluate weapons systems. Range facilities include tracking and surveillance radar, telemetry. tracking and surveillance radar. telemetry.

Communication, recording and command/control/destruct
instrumentation systems. PMTC is a component of

DDD's Major Range and Test Facility Base
and is subject to operating under a Uniform
Funding Policy. This thesis investigates the

Proposal made by PMTC's Engineering and Desicn
Department that a surcharge system be developed to

Law interpretation maintenance costs on proper Department that a surcharge system be developed to levy instrumentation maintenance costs on range users. The DDD organization for RDT&E and Meapon Systems Acquisition is discussed in brief. This is followed by a detailed examination of the Uniform Funding Policy and Industrial Maintenance Principles. The PMTC Financial Management System is presented and surcharge implementation problems are identified. A conclusion is made to effectuate a Surcharge: and allocation and implementation procedures are introduced. (Author) (U)

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AD-A076 833

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PHEARDOLIBLE TROOPS 200 SEARCH CONTROL NO. ZOMOT 5/3

AD-A076 630

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NAVAL POSTGRADUATE SCHOOL MONTEREY CA

The Impact of Cost Accounting Standard Number 409 on the Defense Industry.

DESCRIPTIVE NOTE: Master's thesis. 152P Kline.Jack C. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Accounting. \*Costs. Contracts. Standards. Profits. Government procurement. Industrial equipment. Allocations. Estimates. Records. Finance. Contract administration. Management planning and control. Military procurement, Regulations. Theses IDENTIFIERS: \*Depreciation, Defense industries. Service life

The purpose of this thesis is two-fold. First, it seeks to develop a defense industry perspective on depreciation in general and Cost Accounting Standard No. 409 in particular. The historical development of the Standard and the issues arising from it provide a framework for evaluation. Second, it evaluates these issues in present terms with accurate data reflecting the opinion and experience of industry representatives. Data were gathered by the use of a questionnaire. Results show that the Standard had a fairly modest impact on the defense industry. Recommendations are made concerning the issuance of Cost Accounting Standards and areas for future research. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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NAVAL POSTGRADUATE SCHOOL MONTEREY CA

A Cost Accounting Standard on Capacity Related Costs: A Desirability and Feasibility

(11)

DESCRIPTIVE NOTE: Master's thesis. SEP 79 96P Kennedy.Ha Kennedy. Harvey L. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Accounting. \*Costs. Standards. Feasibility studies. History. Contracts. Requirements. Theses IDENTIFIERS: Contract pricing. Pricing

(U)

The purpose of this thesis was to examine the subjects of capacity and capacity-related costs from both a theoretical and pragmatic standpoint and to determine the desirability and feasibility of a formal cost accounting standard on capacity-related costs. The writer attempted to simulate, in an individual effort, the staff work of the Cost Accounting Standards Board (CASB) through a literature survey and an analysis of the Cost issues paper on capacity-related costs. The thesis concluded that there were potential benefits to the government if a standard could be developed. government if a standard could be developed. However, a standard that could meet the objectives of the Cost Accounting Standards Board did not appear feasible, primarily because of difficulties in the accurate measurement of various capacity levels and because such a standard could lead to unduly complex accounting procedures and excessive administrative costs. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 11/4

AD-A076 373 1/3

BUDD CO FORT WASHINGTON PA TECHNICAL CENTER

Feasibility Study of a Cost-Effective Composite Materials Maximum Performance Escape System Seat.

DESCRIPTIVE NOTE: Final rept. May-Sep 78.

DESCRIPTIVE NOIE: Final re SEP 78 69P CONTRACT: N62269-78-C-0112 PROJ: F41400 TASK: 'WF4140000

MONITOR: NADC 79011-60

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Ejection seats. \*Composite materials. Graphite, Synthetic fibers, High strength,
Lightweight, Stiffness, Aluminum, Comparison,
Cost effectiveness, Naval aircraft, Escape
systems, Molds(Forms), Manufacturing
IDENTIFIERS: PE62241N, MUZA604 (U)

Ejection seats used in military aircraft are Ejection seats used in military aircraft are traditionally fabricated with sheet metal, formed or riveted into a bucket structure. Using conventional metal materials has several drawbacks, namely, high initial production costs required by complexity of manufacture, relatively short service life due to environmental exposure and high maintenance costs. Under the U.S. Navy's Continuing search for improved escape systems, it is required to explore the potential of using advanced 'state-of-the-art' materials to reduce or eliminate these drawbacks. 'Composite' materials and/or a combination of composite and aluminum are explored in this study and composite and aluminum are explored in this study and appear feasible. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A076 218 17/2 5/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

Implementing Usage-Sensitive Charges for AUTODIN. Volume II. AUTODIN Technical Appendices.

(0)

DESCRIPTIVE NOTE: Final cept.. NOV 78 82P 8e
N.: Moody.Dale L.:
REPT. NO.: 10A-S-504-VOL-2
CONTRACT: DAHC15-73-C-0200 Bell .James P. : Fry .John 79-21639.AD-E500 099 MONITOR: IDA/HQ.SBIE

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A076 217.
DESCRIPTORS: \*Communications traffic. \*Data transmission systems. \*Costs. Utilization. Rates. Allocations. Computerized simulation. Communications networks. Department of Defense. Digital systems. Telephone systems. Accounting. Wanagement planning and control TRENTITES: AUTOTIN IDENTIFIERS: AUTODIN

A technique is developed for accumulating and processing data on AUTODIN digital communication usage, applying usage rates and computing user charges for billing purposes. The program was activated on Defense Commercial Communications Office computers and tested using a special 1978 sample of actual system traffic and several alternate rate structures. Resulting cost distributions are shown and discussed. The problems of system shown and discussed. The problems of system implementation and interpretation of data are (U) discussed. (Author)

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AD-A076 218 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A076 217 17/2

MONITOR: IDA/HQ.SBIE

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INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

Implementing Usage-Sensitive Charges for AUTODIN. Volume I. Basic Study.

78-20707.AD-E500 098

DESCRIPTIVE NOTE: Final rept. Bell ,James P. ;Fry ,John

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A076 DESCRIPTORS: \*Communications traffic. \*Data

transmission systems, \*Costs, Utilization, Ratés, Allocations, Computerized simulation, Communications networks, Department of Defense, Digital systems, Telephone systems, Accounting, Management planning and control IDENTIFIERS: AUTODIN, Store and forward communications, Digital communications

communications, Digital communications

A technique is devaloped for accumulating and A technique is devaloped for accumulating and processing data on AUTODIN digital communication usage, applying usage rates and computing user charges for billing purposes. The program was activated on Defense Commercial Communications Office computers and tested using a special 1978 sample of actual system traffic and several alternate rate structures. Resulting cost distributions are shown and discussed. The problems of system implementation and interpretation of data are implementation and interpretation of data ara discussed. (Author) (U)

### UNCLASSIFIED

DDC REPORT SIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A076 163 17/2.1 9/2 1/3 14/2

AIR FORCE AVIONICS LAB WRIGHT-PATTERSON AFB OH

SATCOM 'EHF' Airborne Terminal Availability to Cost Analysis Demonstration.

DESCRIPTIVE NGTE: Technical rept. Jul 78-Apr 79.
JUL 79 151P Bartman.Herbert M.:
REPT. NO. AFAL-TR-79-1105
PROJ: 1227
TASK: 03

## UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: \*Communication satellite terminals.
\*Avionics. \*Reliability(Electronics). \*Cost
analysis. Radio tra smitters. Radio receivers.
Extremely high frequency. Ka band. Jet transport
planes. Systems analysis. Computer programs.
Operational readiness. Missions. Systems
engineering. Systems management. Maintainability.
Trade off analyses. Malfunctions. Mathematical
prediction. Tables(Data)

prediction. Tables(Data)
IDENTIFIERS: Depend computer program. TASA(Tabular System Analysis). C-135 aircraft.
WUAFAL12270313. PE63431F

A practical approach (TASA/DEPEND Program) for analyzing system 'illities' was demonstrated based on results reported in Technical Reports AFALTR-78-45 and AFALTR-78-135. This approach provides an analysis tool for studying the impact of changes in mission use on reliability, availability and dependability so that mission plans can be optimized with respect to achieving design objectives as related to cost. An important feature of this analysis approach is that the impact of malfunctions and failures on system availability and cost are separately assessed. This makes it possible to directly relate the contributions of hardware module reliability and maintainability to functional block performance. Such studies provide a means for concentrating reliability and maintainability resources in areas that will provide the maximum system improvement at the minimum cost. Also, a relational basis for trade-offs between reliability and maintainability requirements is obtained in relationship to cost. A practical approach (TASA/DEPEND Program) for relationship to cost. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 15/5

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14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB CH SCHOOL OF SYSTEMS AND LOGISTICS

Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and Nonprogrammed Requisitions.

DESCRIPTIVE NOTE: Master's thesis. SEP 79 106P Breed John A. ; Winn. SEP 79 106P REPT. NO. AFIT-LSSR-8-798

UNCLASSIFIED REPORT

DESCRIPTORS: \*Military procurement. \*Logistics DESCRIPTORS: \*Military procurement. \*Logistics support, \*Cost analysis, \*Contract administration. Military supplies. Spare parts.
Government(foreign), Regulations. Data bases.
Statistical analysis, Analysis of variance. Hypothesus, Logistics management. Operational effectiveness, Theses
IDENTIFIERS: Foreign military sales

The United States Government participates with friendly countries in Foreign Military Sales (FMS) arrangements to enhance its objectives of peace and security. The Department of Defense usually will complete FMS contracts only after insuring that the foreign customer has adequately considered legistical support for the weapon systems sold. Supply Support Arrangements (SSA) are negotiated to provide this follow-on logistical support to countries who invest and participate in the U.S. defense logistics system. Under this arrangement, foreign governemnts are required to put up advance equity funds equal to a stated portion of the inventory items to be purchased for their needs. This causes items in the SSA to become programmed for foreign customers and should result in lower prices based on advanced procurement, shipments by the Item Manager below should result in lower prices based on advanced procurement, shipments by the Item Manager below the control level, and exclusion of replacement pricing for programmed requisitions. The purpose of this thesis was to determine if a significant difference exists in final billing prices for programmed versus nonprogrammed Cooperative Logistics Supply Support Arrangement (CLSSA)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A075 586 14/1 9/3 14/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

An Operating and Support Cost Model for Avionics Automatic Test Equipment.

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DESCRIPTIVE NOTE: Master's thesis.
SEP 79 180P Guerra .do SEP 79 180P Guerri Andrew J. :Pereira.Jose G. ; REPT. NC. AFIT-LSSR-21-79B Guerra .Joel A. :Lesko .

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cos\* models. \*Avionics. Aircraft equipment. Life cy=le costs. Test equipment. Automatic. Ground support equipment. Weapon systems. Logistics support. Maintenance. Training. Mathematical model: . Corputer programs. Theses

One of the fastest growing elements of weapon system surport equipment which relates directly to Operating and Support (O and S) costs is Automatic Test Equipment (ATE). The importance of ATE has expanded to such a degree that it requires additional management attention. The importance is averalified by the SEON ciliose. that it requires additional management attention. The importance is exemplified by the \$600 million projected development and acquisition costs of ATE for the F-16. This amount of cost qualifies the F-16 ATE for major program status. This thesis documents the development of a model to estimate and measure C and S costs for Aviunics ATE. The model will be an important addition to the tools used in ATE Life Cycle Costing (LCC) techniques. It is envisioned primarily as an evaluation tool to be used in ATE source selection, but may also be useful in various design trade-off studies. (Author) (Author) (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A075 582

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB GH SCHOOL OF SYSTEMS AND LOGISTICS

Development of Improved Criteria for Determining the Need for Pricing Staff

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DESCRIPTIVE NOTE: Master's thesis.
SEP 79 106P Martinez Margaret A.;
McConnell.Thomas J.;
REPT. NO. AFIT-LSSR-1-79B

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force procurement. \*Contract administration, \*Cost analysis, Contract proposals, Specialists, Skills, Money, Planning programming budgeting, Decision making, Resource management, Job analysis, Theses

The bujortive of this research was to determine whether improvement could be made in the current method of determining the need for pricing staff action. Current: a collar threshold is the sole criterion used in Air Force contracting and pricing offices to determine whether the price or cost analysis of a contractor's proposal should be performed by the pricing office or by the contracting office. While this sole criterion is convenient and easy to apply, it was not considered to be an effective decision rule. Interviews conducted with pricing experts in both Air Force Systems Command and Air Force Logistics Command revealed that the dollar threshold did not, in most cases, identify those contracts requiring the special The objective of this research was to determine revealed that the dollar threshold did not, in most cases, identify those contracts requiring the special expertise of the pricing offices. The research indicated that the use of a decision rule which considered the factors of type of contract, nature of buy, contracting officer skill, complexity, and contractor, in addition to dollar value would result in a more effective use of pricing resources. (Author) (4)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A075 530

13/10 14/1 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Marginal Cost Factors for High Performance Ships and their Impact on Subsystem Design.

( ()

DESCRIPTIVE NOTE: Master's thesis.
MAY 78 194P Turner.Douglas Kearney:

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Hydrofoil craft. \*Surface effect ships. \*Cost analysis. Naval arch.tecture. Systems engineering. Computerized simulation. Life cycle costs. Weighting functions. Naval procurement. Weapon Systems. Ship defense systems. Sonar equipment. Marine surface propulsion. Cost models. Planning angeramming budgeting. Theses Planning programming budgeting. Theses

Investication reveals that major weapon. propulsion. and sensor subsystems, selected for use aboard Naval vessels, are designed many years prior to the development of a ship. The tendency, by Ship Acquisition Managers, to select off-tng-shelf equipment is the result of various political pressures and a requirement to minimize the technical risk of the total ship system. Subsystem Designers develop their product without regard for the subsystem's impact on possible future snip designs. The physical characteristics (i.e. weight, required manning, electrical power, and space Investigation reveals that major weapon. designs. The physical characteristics (i.e. weight. required manning, electrical power, and space required of a subsystem are not controlled and the growth of these parameters is a major factor in the escalating cost of Naval ships. To Assist both the Ship and the Subsystem Acquisition Managers/Designers in controlling costs. Hanagers/Designers in controlling costs.

Marginal Cost Factors are proposed. Previous work has demonstrated the validity of the concept of Marginal Factors to predict the ship-growth costs due to the impact of subsystems on conventional displacement ships. This thesis builds upon this work by using two ship synthesis computer models to generate Marginal Meight Factors for two high performance Ship-types of recent interest to the U.S. Navy - Hydrofoils and Suface Effect
Ships. (Author) Ships. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A075 511

13/13 5/1 15/3

CONSTRUCTION ENGINEERING RESEARCH LAS (ARMY) CHAMPAIGN

Real Estate Cost Estimating Techniques for PL 91-646 Relocation Costs.

DESCRIPTIVE NOTE: Final cept..
SEP 79 191P Poskus U.
D. :Stawarz.S. P. :
REPT. NO. CERL-TR-P-103
CONTRACT: IAO-RE-77-1 Poskus .U. R. :Stemas .G.

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Housing(Dee:lings). \*Cost estimates. \*Army Corps of Engineers. Relocation. Least squeres method, Computer programs. Military engineering. Public relations. Construction.

Benefits IDENTIFIERS: Real estate

This report documents the development of a predicting model which would better estimate the amount of money required by Districts to compensate individuals relocated from their residences, bysinesses, or farms as a result of U. S. Army Corps of Engineers construction. The predictions are the result of applying the least squares method to previous District and state payment data. Three different approaches for developing the model were attempted. The approach which used Docket Sheet data broken out by Fiscal Years 72 through 76 was selected as having the highest probability for success. Using the information from these Docket Sneets, average total payments were computed by state and by District, and average values were found for each of 15 payment catagories. (Author)

#### UNCLASSIFIED

UDC REPGRE BIBLISGRAPHY SEARCH CONTROL NO. ZOMOT

AU-A075 500

ROCKWELL INTERNATIONAL EL SEGUNDO CA NORTH AMERICAN AIRCRAFT DIV

Aircraft Transparency Failure and Logistical Cost Analysis - supplemental Study.

DESCRIPTIVE NOTE: Final rept. Feb-dum 79. JUN 79 252P Br. REPT. NO. N2-79-237 CONTRACT: F03615-77-C-3060 5rown .S. 5. :

PROJ: 240 TASK: 03

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MONITOR: AFFOL TR-79-3083

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Transparent panels. \*Aircraft. Windshields. Windows. Aircraft panels. Failure(Mechanics). Aircraft paintenance. Reliability. Logistics support. Life cycle costs. Jet fighters. Helicopters. Fittings. Supports.

Protective costings. Lubrication. Windshield Wipers
IDENTIFIERS: F-4 aircraft. A-7D aircraft. C-

139 aircraft, CH-53 eircraft, CH-3 aircraft, UH-1 aircraft, WUAFFDL24020302, PE62201F

Concern for increasing costs in maintenance of transparency systems has prompted the Air Force Flight Dynamics Laboratory to sponsor this study Contract. The object of this study is to identify the higi-cost, high maintenance transparency Components; identify cosuse of failures; and recommend corrective arrangements reduce cost of camership to the Air Force Logistics Command. The study involved the review of 20 selected The study involved the review of 20 selected aircraft in current inventory to establish an extensive data base relating transparency maintenance activity and associated 'ucistical support costs. An important adjunct to this study was to research dasign characteristics, perform a failure analysis, and identify associated logistical support cost for each study aircraft. Sp using a selective process of correlating the transparency failure modes and agintenance costs with the relative statume of aircraft in current inventory, corrective programs were established and verified by life-nowle cost ere established and verified by life-cycle cost (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A075 444 15/7

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NAVAL POSTGRADUATE SCHOOL MONTEREY CA

An Analysis of the Cost Effectiveness of a Specialized Mission Helicopter in the U.S. Coast Guard.

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DESCRIPTIVE NOTE: Master's thesis,
JUN 79 135P King,N. Edward;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Helicopters, \*Coast Guard, Missions, Costs, Cost effectiveness, Shipboard, Naval operations, Theses

The operations which might be performed by specialized mission helicopters are identified and several hypothetical mixes of these halicopters are developed and analyzed. Actual flight hours performed in fiscal years 1974 through 1978 and used as a data base for the study. The alternatives are analyzed in terms of total differential costs of performing the same missions that were conducted during the base period. Aspects such as the adding of additional helicopters to stations without additional personnel, dual qualification of personnel, shipboard operations of single-engine helicopters, and the short-range recovery replacement helicopter are also analyzed. It is concluded that it would have been cost effective to have operated specialized mission helicopters during the base period Projections of future nelicopter activity indicate that this advantage would continue into the future. (Author)

# UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A075 437 5/1

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH

The A-10 and Design-to-Cost: How Well Did It Work.

DESCRIPTIVE NOTE: Research study.
MAY 79 S1P Carleton.Roger E. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Attack bombers. \*Contract administration. \*Design to cost. Military procurement. Scheduling. Performance(Engineering). Weapon systems
IDENTIFIERS: A-10 aircraft. Constraints

(u)

This document covers systems procurement in a design-to-cost atmosphere. Identifies deficiencies in this program and offers recommendations to improve this lack of responsiveness. (Author) (U)

AD-A075 444

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AD-A075 437

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A075 272

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DYNAMICS RESEARCH CORP WILMINGTON MASS

Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition.

DESCRIPTIVE NOTE: Interim rept. Oct 77-Jul 78, SEP 79 96P King Geraro F. :Askren,

William B.; CONTRACT: F33615-77-C-0016

PROJ: 1959 TASK: '00

MONITOR: AFHRL TR-79-28(1)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendix A. AD-A075

DESCRIPTORS: \*Human resources, \*Logistics support, \*Life' cycle costs. \*Air Force procurement. Weapon systems, Short takeoff aircraft, Resource management, Data bases. Systems engineering.
Decision making, Trade off analyses, Manpower
utilization, Air Force training, Aircraft
maintenance, Maintenance management, Logistics
management, Reliability, Avionics, Landing gear
IDENTIFIERS: WUAFHRL19590002, PE63451F

A methodology, the coordinated human resource technology (CHRT), was developed to quantify critical human resource, ogistics, and cost factors throughout aircraft acquisition. Knowledge of these factors helps influence the selection of a system and support design approach. The factors quantified are manpower, training, technical documentation, and system ownership costs. Reliability and maintainability, both of which directly affect the foregoing, are also quantified. The CHRT methodology also implements an integrated approach to personnel, training, and technical documentation, and operates from a single, evolving consolidated data base. This report describes two parts of a three-part demonstration of CHRT application on an aircraft acquisition program. Parts 1 and 2, respectively, use conceptual and validation (prototype) phase data on avionics and landing gear systems of the Advanced Medium STOL Transport (U

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT

AD-A075 249

13/5 14/1 13/13

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

A Comparison of Fillet held Strength and U.S. Navy Design Specifications for Non-Combatant Ships and the Economic

DESCRIPTIVE NOTE: Master's thesis.
MAY 78 207P McCabe.William Carl :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Welds. \*Strength(Mechanics). DESCRIPTORS: \*Welds. \*Strength(Mc.hanics).
Comparison. Economics. Specifications. Tesion to
cost. Joints. Corrosion. Fabrication. Geometry.
Models. Experimental design. Labor. Theory.
Sizes(Dimensions). Loads(Forces). Yard craft.
Small Ships. Ship hulls. Ships
IDENTIFIERS: Fillet welds. Noncompatant ships.
Computer models. Labor costs

( U )

There is a great interest in the strength of fillet welds because the welding operation accounts for about 30% of the labor cust in planning and about 30% of the labor cost in planning and constructing ship hulls. One way to reduce welding cost is to reduce the required weld size. Background information is obtained by reviewing the major experimental and theoretical work in the areas of static strength, fatigues strength, and shear strangth of fillet welds. In order to appreciate the conditions in the real world, design considerations, fabrication considerations, and corrosion considerations are discussed. Typical joints from existing U.S. Navy ships are employed to obtain detailed geometry and local loading information to be used as input for a loading information to be used as input for a Computer model which was developed at Massachusetta Computer model which was developed at Massachusetta Institute of Technology which uses the finite element method for determining the static strength for fillet welds. In one particular joint a reduction of 30% in the required weld size is justified. A future system for analyzing fillet weld strength is proposed and explained by the use of an example. The economics of intermittent and Continuous welds are examined, and the economic impact that a reduction in the required fillet weld size would have on ship construction cost is estimated. (Author) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A075 209

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DYNAMICS RESEARCH CORP WILMINGTON MASS

Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition-Appendix A.

DESCRIPTIVE NOTE: Interim rept. Oct 77-Jul 78.
SEP 79 115P King ,Gerard F. ;Askren.
William B.;
CONTRACT: F33615-77-C-0016
PROJ: 1959
TASK: '00

MONITOR: AFHRL TR-79-28(II)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Appendix A to rept. no. AFHRL-TR-79-28(i), AD-A075 272.

DESCRIPTORS: \*Human resources, \*Logistics support, \*Life' cycle costs, \*Air Force procurement, Weapon systems, Short takeoff aircraft, Resource management, Data bases, Systems engineering, Decision making, Trade off analyses, Manpower utilization, Air Force training, Aircraft maintenance, Maintenance management, Logistics management, Reliability, Avionics, Landing gear IDENTIFIERS: PE63451F, WUAFHRL19590002

The Coordinated Human Resource Technology and the Consolidated Data Base have been of the Consolitated Data base nave been demonstrated in the conceptual and validation phase of weapon system acquisition. The results of this demonstration are reported in AFHRL-TR-79-28(I'). This report (volume II) constitutes Appendix A to that demonstration report and provides additional details of the demonstration. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A075 099

5/10 5/1 14/1

DECISION RESEARCH EUGENE OR

Behavioral Aspects of Cost-Benefit Analysis.

(U)

DESCRIPTIVE NOTE: Technical rept..

JAN 79 37P Fischhoff.Baruch:

REPT. NO. PIR-1077-79-1

CONTRACT: NO0C14-79-C-0029, ARPA Order-3668

UNCLASSIFIED FEPORT

SUPPLEMENTARY NOTE: See also Rept. no. PTR-1077-79-5. AD-A075 100.

DESCRIPTORS: \*Decision making. \*Cost effectiveness.

Methodology. Input. Management. Limitations.

(U)

Cost benefit analysis asks whether the expected benefits from a proposed activity outweigh its expected costs. Although based on an appealing premise and supported by a sophisticated methodology, these procedures have a number of characteristic limits on their usefulness as management tools. One set of limits is imposed by the unavailability of necessary inputs to the analysis. Neither the values nor the likelihood of many potential costs and benefits can be reasonably approximated by any formal computations. They must be derived in whole or in part by objective and reliable human judgment. Research has shown, however, that probability judgments are often quite unreliable and prone to systematic biases, while judgments of value are highly labile, changing with subtle (and formally irrelevant, shifts in the elicitation procedures. Relatively little is known about how to reduce these differences or assess the impact of those that remain. Related difficulties in assessing the quality of analyses comprise a second set of limits. There have been few systematic evaluations of formal analyses or attempts to develop a methodology for assessment. A third set of limits is the inability of the procedures to address critical issues in the management process they are designed to Cost benefit analysis asks whether the expected inability of the procedures to address critical issues in the management process they are designed to atet.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A074 454

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BOEING AEROSPACE CO SEATTLE WA SOEING MILITARY AIRPLANE DEVELOPMENT ORGANIZATION

An Extension of Engine Weight Estimation Techniques to Compute Engine Production Cost.

E: Final rept.,
38P Onat,E.;Tolle,F. F.; DESCRIPTIVE NOTE: AUG 79 38P On: CONTRACT: N62269-78-C-0286 MONITOR: NADC 78103-60

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Turbojet engines. \*Cost estimates. \*Computer programs. Military aircraft. Engine components. Weight, Alloys, Industrial production. Costs. Coding IDENTIFIERS: LPN-NPRC-1939D/XS901

As a follow-on to previously developed engine weight estimation work, a preliminary design engine cost estimating code has been produced. The code relies on engine thermodynamic characteristics and weight as computed by earlier developed codes to weight as computed by earlier developed codes to select raw material types and quantities required to produce the engine. An existing Navy technique is then used to convert this data into engine cost. The code was used to predict the cost of three existing engines; errors ranged form 1 to 8% of actual costs as reported to NADC. (Author) (u)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOYOT

AD-A074 393 13/8 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

The Value of the Base Level Industrial Engineer. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 79 120P Caples.Buc
Anthony J.:
REPT. NO. AFIT-LSSR 12-79A Caples.Buddy C. :Kwan.

# UNCLASSIFIED REPORT

DESCRIPTORS: •Industrial engineering. •Military facilities. •Cost effectiveness. Personnel management. Ratings. \*Vanagement engineering. Operations research. Data acquisition. Problem solving, Theses
IDENTIFIERS: \*Facilities management

DENTIFIERS: \*Facilities management

The objectives of this thesis were to calculate the perceived benefit/cost index of each base level Industrial Engineering (IE) responsibility and to determine the variables that significantly affect the perceived value and effectiveness of each base level IE responsibility. The majority of the thesis was developed around a questionnaire entit #d Industrial Engineering Cost Effectiveness.

The questionnaire was mailed to all Air Force bases having an industrial engineering branch of three or more personnel. The population surveyed included officers and civilians holding the following positions at each base: Base Civil Engineer. Deputy Base Civil Engineer. Chief of Industrial Engineering. Chief of Industrial Engineering. Chief of Operations and Chief of Resources and Requirements. The resuits of the survey indicate that the perceptions of the value and effectiveness. importance and benefit/cost index are different for each responsibility. Variables that influence the perceived value and effectiveness of base level IE were identified. Some of the changes that you'd enhance the perceived value of each IE responsibility are: giving IE personnel training in writing technique, oral techniques, feedback and quantitative analysis: allowing IE to participate in establishing goals and objectives for its branch.

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DDC REPORT BIBLIOGRAPHY STAPCH CONTROL NO. ZOMO7

AD-A074 189 5/9

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

An Analysis of the Cost Implications of Employing Success Predictive Criteria in the Process of Selecting Navy Recruiters.

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DESCRIPTIVE NOTE: Master's thesis, dUN 79 142P Shupack, Mary Anderson :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Recruiting. \*Recruiters. Personnel selection, Navai personnel, Performance(Human), Systems analysis, Cost analysis, All volunteer.

This study analyzed the performance of enlisted Navy recruiters from recruiting stations throughout Navy recruiters from recruiting stations throughout the United States against a measure of effectiveness defined in terms of the NAVCRUITCOM Honor Roll. Six variable, describing personal characteristics were analyzed in an attempt to explain recruiter success. The study showed that the best predictor of recruiter success was the level of formal education attained while the best explanation for recruiter failure was the individuall's rate. Cost implications of high turnover and low productivity within the Navy recruiting force were then outlined and the role improved recruiter selection techniques could play in reducing these Costs discussed. (Author) reducing these costs discussed. (Author)

#### UNCLASSIFIED

DDC REPGA. SIGNIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A074 054 15/7 16/4 12/2

BATTELLE COLUMBUS LABS CH

Cost-Driver Analysis for Computerized Production Process Planning.

DESCRIPTIVE NOTE: final rept.
dUL 79 164P Hill.
Thomas G. :Noton.Bryan R. :
CONTRACT: DAAK40-77-R-0138 Hill.Terrance E. : Byrer.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Army planning, \*Guided missiles. \*Operations research. Cost analysis. Flow charting. Management engineering. Production. Data acquisition. Computer programs. Savings

(u)

This report describes the work done by Battelle's Columbus Laboratories (BCL) for the U.S. Army Missile Research and Development Army Missile Rasearch and Development Command (MIRADCOM) to develop a methodology for examining missile manufacturing costs, cost drivers in manufacture, and future missile MANTECH programs from the standpoint of best ROI of funds. This Objective has been ret through the devalopment of a missile parts classification system (MPCS) which provides a methodology for extending cost delivers in missile parts classification system (MPCS) which provides a methodology for examining cost drivers in missile manufacture plus a variety of other interactive possibilities achievable through the availability of cost information at the discrete cart level. As devised, this methodology will accommodate both present as well as future missile systems. In other words, the methodology is designed such that as new technologies develop, the system is sufficiently flexible to accommodate these changes. Data would be stored and retrieved from a computer to allow general comparisons of costs which will identify cost drivers. MANTECH projects with high ROI, and estimates of future missile costs.

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A073 972

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ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume V. Slide-Rule Model System User's Guide.

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JUL 79 33P Ne REPT. NO. AG-PR-A101-VOL-5 CONTRACT: N00014-78-C-0465 Neches. Thomas M. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A073 DESCRIPTORS: \*Cost analysis, \*Cost models, \*Design to cost, Life cycle costs. Models, Instructions, Input, Computer programs, Computer applications, Manuals

The Level I 'Slide-Rule' Cost Model
System is implemented on a Texas Instruments
TI-59 programmable calculator coupled to a TIPC-100A Print/Security Cradle. The model
system consists of four linked programs, the TicDown Model, (TDM) the Lowest Removable
Assembly Model (LRAM), the System
Aggregation Model (SAM), and the System
Confidence Model (SCM). Each program and its
data input sets are stored on magnetic cards. The
output of each program is used as input to succeeding
programs, together with additional input data. The
TI-59 has 120 program/data registers, which can be
partitioned as desired between program instruction
steps and data memory registers. When the partitioned as desired between program instruction steps and data memory registers. When the calculator is turned on, 60 memory registers are automatically reserved for data storage. All programs other than the TDM use the default allocation. The TDM, however, uses only 40 registers for data storage; the remaindar is used to store the program code. Therefore, when running the TDM, the first step after turning on the calculator will be to repartition the memory registers.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NC. ZOMOT

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ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume IV. Slide-Rule Model System Program Manual.

(U)

JUL 79 57P Ne REPT. NO. AG-PR-A101-VOL-4 CONTRACT: NO0014-78-C-0465 Neches. Thomas M. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 5. AD-A073 972.
DESCRIPTORS: \*Cost analysis. \*Cost models. \*Design to cost. Life cycle costs. Spare parts.
Algorithms. Flow charting. Equations.
Mathematical models. Computer applications.
Computer programs. Manuals

The Slide-Rule Life Cycle Cost Model
System (SRS) has been designed as an aid to
system, subsystem ad assembly designers in making
Cost estimates and trade-offs early in the design
process. At this stage it is still posible for cost
analysis to influence design - system cost has not
yet been 'locked in' due to the lack of flexibility
in system configuration which occures in the later
phases of design. The SRS consists of four linked
programs implemented on a Texas Instruments TI59 programmable calculator coupled to a TI PC-100A
printer. Each program is appropriate to a
different design phase and aggregation level. The
first estimates the life cycle costs of a system by
making simplifying assumptions about its subelements:
the second is used for the design of a single
Lowest Removable Asembly (LRA): the third
estimates system or subsystem costs by aggregatino
the costs of its subelements. computed in the second
program: the fourth is a specialized program used to
Compute the achieved system confidence level against
a stock-out of spare parts.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A073 970 5/1 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume III. NEDCOM User's Guide. (U)

JUL 79 14P Benner, Lynne E. : Neches. Thomas M.;
REPT. NO. AG-PR-A101-V01-3
CONTRACT: NO9014-7C-C-0465

Cost Model)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4. AD-A073 DESCRIPTORS: \*Cost analysis, \*Cost models, \*Design to cost, Life cycle costs, Electronic equipment, Computer applications, Repair, Estimates, Shipboard, Manuals, Computer programs

IDENTIFIERS: NEDCOM(Naval Electronics Design (U)

The Naval Electronics Design Cost Model (NEDCOM) is implemented on the APPLE II Computer System. NEDOCM configures a system cut of individual Lowest Romovable Assemblies (LRA's). The program is capable of handing a system consisting of up to 100 distinct LRA types, each of which is characterized by 7 input variables. In addition, NEDCOM requires as input 61 system-In addition, NEDCOM requires as input 61 system-level variables which describe the system operating environment, system manpower and training requirements, system design, and the Naval support environment. The user is given a choice of six different run type options. He can enter new system and LRA data, append a new LRA configuration to an existing system description, alter data previously entered and stored on disk, add additional LRA types to an existing LRA configuration, perform sensitivity analysis on system variables, and finally, run a previously stored system Configuration without making any changes. The first two options create new information files which are stored on disk for future use. The third andfourth options are for future use. The third andfourth options are used to alter the information stored on these files. The final two options execute system runs without any changes in stored data.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A073 969 5/1 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System, Volume II. The Naval Electronics Design Cost Model (NEDCOM): Program Manual.

(U) Neches. Thomas M. :Benner.

JUL 79 44P Nec Lynne E.; REPT. NO. AG-PR-A101-VOL-2 CONTRACT: NO0014-78-C-C465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A073 DESCRIPTORS: \*Cost analysis. \*Cost models. \*Design to cost. Life cycle costs. Electronic equipment. Computer applications. Repair. Estimates. Shipboard, Flow charting, Algorithms, Spare parts, Manuals, Equations, Computer programs IDENTIFIERS: NEDCOM(Naval Electronics Design (U)

The Naval Electronics Design Cost Model (NEDCOM) is an interactive computer cost mode! which estimates the life cycle cost of electronic systems to be deployed in a Navy Shipboard environment. It has been designed to aid the system and component designer in conducting design/cost trade-off analysis, as well as providing a link between the designer and the logistics support between the designer and the logistics support specialist. NEDCDM is implemented on an APPLE II desktop computer system. While fur more capable and sophisticated than the programmable calculators used for the Level I Slide-Rule cost modles (see Volumes IV and V), the APPLE II is much smaller and less expensive than the full-scale computer systems required for the Level III Model (see Volume I). Some of the main features of NEDCOM are the following. Life cycle cost for individual Lowest Removable Assemblies (LRA) are computed for four levels of repair postures: repair at a Contractor operated depot, repair at a repair at a Contractor operated depot. repair at a military operated depot. local repair, and discard at failure. The lest cost of the four postures is automatically selected and aggregated to system level Costs to produce a total system life cycle cost estimate. (U)

AD-A073 969

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

5/1 AD-A073 968 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume I. Mathematical Models.

79 110P Neches. Thomas M. ; Butler.

Robert A. : REPT. NO. AG-PR-A:01-VOL-1 CONTRACT: N00014-78-C-0465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A073 969 969.
DESCRIPTORS: \*Cost analysis, \*Manpower, \*Cost models, \*Mathematical models. Life cycle costs. Production, Spare parts, Repair, Inventory. Transportation, Computer applications (u)

Transportation, Computer applications

The objective of the project reported in these Volumes is to elucidate the principles of hardware/manpower cost analysis developed in an warlier study. A Framework for Bardware/Manpower Tradeoff Analysis During the Weapon System Acquisition Process. In this Volume, six models are presented. The Level III Model is the most complex and its exposition is used to set notation and explain the underlying concepts of all the models. It is intended to be implemented on a large, production computer. The Level II Model, less complex, was developed for implementation on a stand-alone micro-computer of the sort one might expect to be available to a design team. There are four Level I Models, all developed for use on a programmable calculator. Of the six models, all but the Level III Model have been programmed as part of this project. The Level II Model has been programmed in BASIC on a 48 K microcomputer. A User's Guide and Program Manual for that model constitute Volumes II and III of this study.

#### UNCLASSIFIED

DDC REPURT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A073 781 5/1

NORTH CAROLINA STATE UNIV RALEICH

Optimal Project Compression with Due-Dated Events.

19P Elmaghraby.S. E. :Pulat.P.

CONTRACT: DAAG29-76-G-0204 MONITOR: ARO 13119.3-1

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly. v26 n2 p331-348 dun 75 (No copies furnished by DDC).
DESCRIPTORS: \*Network analysis(Management). \*Cost models. Algorithms. Optimization. Flow charting. Reprints

Reprint: Optimal Project Compression with Due-Dated Events.

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ARING RESEARCH CORP SANTA ANA CA

Avionics Installation (AVSTALL) Cost Model for User Equipment of NAVSTAR Global Positioning System.

Stewart, W. : Allen.D. :

Orth.P.; REPT. NO. 1727-04-1-1959 CONTRACT: F04701-78-C-0124

UNCLASSIFIED REPORT

DESCRIPTORS: \*Global Positioning System.
\*Avionics, \*Cost models, Installation, Costs.
Modification, Military pircraft, Parts,
Regression analysis, Least squares method
IDENTIFIERS: Navstar project, Effectiveness

An avionics installation (AVSTALL) cost model developed for application to the Navstar Global Positioning System (GPS) is described. The model determines the aircraft-peculiar costs of intalling avionics equipment—for example. GPS user equipment—into military aircraft. It is based on cost estimating relationships (CERs) developed from an analysis of 51 previous Class V avionics modifications to Air Force aircraft. The development and application of these CERs are explained in this report.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A0/3 554 15/5 13/13

KAMAN AEROSPACE CORP BLOCMFIELD CT

Design Assessmen' of Advanced Technology Lightweight. Low-Cost Mission-Configured Gondola Modules.

TE: final rept. Aug 78-Mar 79. 175P Porterfield.John D. DESCRIPTIVE NOTE: JUL 79 175P PO REPI NO. R-1558 CONTRACT: DAAK51-78-C-0012 PROJ: 1L1622C9AH76 TASK: 00 Porterfield.John D. :

MONITOR: USARTL TR-79-16

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. USAAMRDL-TR-77-28.
DESCRIPTORS: \*Gondolas. \*Cargo handling.

\*Structural engineering, Helicopters, Modular construction, Floors, Superstructures, Tubular structures, Beams(Structural), Metal plates, Mechanical cables, Structural analysis.

Lightweight. Low costs
IDENTIFIERS: \*HEGS(Helicopter External Gondola System). WU244. ASH76. PE62209A (U)

The objectives of this program were to identify applicable high strength materials and efficient structural concepts for application to various elements of the helicopter ecternal gondola system (HEGS) and to subsequently prepare preliminary design arrangements for the HEGS-10. HEGS-20. and HEGS-palletized modules.(Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMC7

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GRUMMAN AEROSPACE CORP BETHPAGE NY

Manufacturing Cost Data Collection and Analysis for Composite Production

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DESCRIPTIVE NOTE: Final rept. Sep 77-Feb 79.

MAY 79 109F Rachowitz.B. 1. :Coletti.
R. J. :Tornabe,A. J. :
CONTRACT: F33615-77-C-3022
PROJ: 2401
TASK: '03
MONITOR: AFFO:

(Author)

# UNCLASSIFIED REPORT

DESCRIPTORS: •Composite materials. •Cost analysis.
•Cost estimates. •Composite structures.
•Airframes,' •Computerized simulation. Tape wound construction, Manufacturing, Validation
IDENTIFIERS: Advanced Composite Cost
Estimating Model, PE62201F, WUAFFDL24010326 (U)

This technical report documents the procedures used to validate the Advanced Composite Cost
Estimating Model, by comparing the model output
with actual costs measured during production
fabrication. This validation also includes
recommendations as to the limitations and
improvements that can be made to the model.
(Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A073 429

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COMPUTER SCIENCES CORP FALLS CHURCH VA

Earth Terminal Subsystem Study. Volume 1 - Small Terminal Cost Analysis.

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DESCRIPTIVE NOTE: Final technical rept..

MAY 79 50P Winebarger.Ross

CONTRACT: DCAf00-76-C-0089

MONITOR: SBIE AD-E100 271 winebarger.Ross:

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4. AD-A073 356. Prepared in cooperation with Harris Corp.. Melbourne, FL. Government Systems Group. DESCRIPTORS: \*Communication satellite terminals. \*Communication terminals. Cost englysis. Cost effectiveness. Communication equipment. X band. Antennas. Klystrons. Radio equipment. Military procurement. Trade off analyses IDENTIFIERS: Satellite communications. Earth terminals. Satellite terminals

This report addresses the cost sensitivities of the major Components of a small economical earth terminal. A baseline X-band terminal is proposed which has a G/T of 20 dB AND AN EIRP of 72 dBM. Parametric curves are occeloped which show the changes in hardware cost corresponding to moderate changes in component characteristics around the baseline values. Parametric cost curves are developed for changes in the antenna diameter. RMS surface accuracy, antenna efficiency, antenna wind performance. Transmitter power, type of low-noise amplifier, oscillator stability, and phase noise performance. Cost data is then developed and presented for changes in the terminal G/T. EIRP, and availability around the baseline terminal performance. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A073 400

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

Cost-Effectiveness of Computer-Based Instruction in Military Training.

DESCRIPTIVE NOTE: Final rept. Oct 77-Mar 79.
APR 79 218P Orlansky.Jesse ;Stri APR 79 218P Joseph : REPT. NO. IDA-P-1375 CONTRACT: DAHC15-73-( Orlansky.Jesse ;String.

CONTRACT: DAHC15-73-C-0200 MONITOR: IDA/HQ.SE:E 78-20721.AD-E500 088

# UNCLASSIFIED REPORT

DESCRIPTORS: •Military training, •Cost effectiveness, Computer aided instruction, Individualized training, Performance(Human), Students, Job training, Education, Schools

The cost and effectiveness of computer-based instruction for military training are evaluated on the basis of about 30 studies conducted since 1968. four methods of instruction are distinguished and compared: Conventional Instruction: group-paced lectures, and discussions. Individualized Instruction: se'f-paced (without computer support). Computer-Assisted Instruction (CAI): computer stores and provides instructional materials to students individually via interactive terminals: computer tests and guides students; self-paced. Computer-Managed Instruction (CMI): instructional materials and tests provided away from computer; computer scores the tests and guides students; self-paced. The cost and effectiveness of computer-based (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20207

AD-A073 314 5/1

ARMY MISSILE MATERIEL READINESS COMMAND REDSTONE ARSENAL AL SOST ANALYSIS DIV

Target Missile Airframe Costs. (U)

DESCRIPTIVE NOTE: Technical rept..
MAR 79 22P Anderson.william P.:
REPT. NO. DRS#I-FC-79-1

# UNCLASSIFIED REPORT

DESCRIPTOPS: \*Target drones. \*Airframes. \*Cost estimates, Production, Equations, Regression estimates, Production, Equations, Regranalysis
IDENTIFIERS: MCM-74C missiles, MCM-51A
missiles, Rednead-Roadrunner, MCM-107A
missiles, ACM-37A missiles, 8CM-34A (111) ( 11)

A parametric method of estimating the production cost for a proposed TARGET Missile Airframe is presented in this report. A cost estimating relationship (CER) has been developed based upon an independent variable, the estimated airframe weight in pounds. The independent variable (Y) in the CER, Y = (A-Bx) squared, represents the average unit production cost for the first 700 airframes produced in terms of FY 77 constant dollars. The methodology used in developing this CER as well as a presentation of data and TARGET Missile Technical Descriptions, is included for the benefit of the cost estimator. (Author) benefit of the cost estimator. (Authur) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A073 067

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15/5 9/:

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

Evaluation of the Engineering Change Proposal Cost Evaluation Model.

DESCRIPTIVE NOTE: Master's thesis. JUN 79 104P Kehres.Joh Kehres.John W. :Kolpin.E. Dan !

REPY. NO. AFIT-LSSR-21-79A

## UNCLASSIFIED REPORT

DESCRIPTORS: . Cost estimates. . Life cycle costs. DESCRIPTORS: "Cost estimates, "Life cycle costs, Modification, Contract proposals, Computarized simulation, Costs, Comparison, Decision making, Logistics Support, Weapon systems. Systems engineering, Aeronautical engineering, Air Force Logistics Command, Logistics management, Thes IDENTIFIERS: ECP(Engineering Change Penanceals) (U) Proposals) (U)

This thesis effort was directed toward the evaluation of a computer model designed as a tool for assessing cost impacts of aircraft engineering change proposals. The Engineering Change Proposal (ECP) Cost Evaluation Model was evaluated in a comparative analysis against the Air Force
Logistic Command indistics Support Cost
(LSC) Model. Both models were exercised using
data for a hypothetical aeronautical weapon system.
The first run of the rata served to establish a
baseline configuration to which simulated ECPs
could be Command and the configuration of the Command Command Command Could be Command Command Could be Command Command Could be Command Command Command Could be Command Command Could be considered to the Could be considered to the Could be command could be considered to the could be command could be comman could be contigurated to which simulated EUPs could be continued against. Subsequent runs were made with Changes to the baseline cost estimates recorded. Cost estimates of the baseline configuration were compand to cost estimates of the changed configuration. Comparisons were made of the percent of change within each model and the total cost prediction between the two models. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-4073 018 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFD OH SCHOOL OF SYSTEMS AND LOGISTICS

The Use of the Maurer Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Turbojet engines. \*Cost estimates. \*Cost mode's. Parametric analysis. Statistical analysis. Regression analysis. Theses IDENTIFIERS: \*Maurer factor (U) (U)

Military managers are faced with increasing systems costs. One area where this increasing cost is especially true is in the acquicition of aircraft weapon systems. A driving factor in the aircraft Cost is the turbine engine, and therefore acquisition managers have been tasked with developing cost estimating methods that will more accurately predict turbine engine cost. At present, several parametric costing models available are briefly discussed in this report. However, the primary objective of this report is to evaluate a costing technique used axtonsively by the havy—the Maurer Factor (2F) technique. The MF technique is a parametric costing technique based on the materials in a turbine engine. The report includes the in a turbine engine. The report includes the following: (a) a detailed description of the MF technique: (b) a validation of the MF technique: (c) the development of an estimated MF (EMF) model using engine performance parameters: and (d) statistical analysis and validation of the SMF models. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A073 003

14/1 5/1

ADJUTANT GENERAL CENTER WASHINGTON DC POSTAL DIRECTORATE

Evaluation of Postage Weters and Decentralized Accountability for Official Mail Costs.

DESCIPTIVE NOTE: Final rept. 5 Sep 78-30 Jun 79.
JUL 79 57P Beasley.Louis J. . Jr.: Sanders, Richard B., Jr.; Caridakis, Minnie M.

REPT. NO. PL-79-01

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Postage meters. Accountability. Costs, Cost effectiveness. Management. Army IDENTIFIERS: \*Mail costs (U)

DENTIFIERS: \*Mail costs (UENTIFIERS: \*Mail cost (UENTIFIER) (UENTIFIERS: \*Mail costs (UENTIFIERS

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

An Analytical Evaluation of Procedures for Closing Cost-Type Contracts.

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Paster's thesis. PP Bristow.Wichael B. :Voad. DESCRIPTIVE NOTE: JUN 79 107P Br Joseph E. : REPT. NO. AFITHESSR-15-79A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Contract administration, \*Indirect costs. Centracts. Regulations. Methodology. Costs. Risk. Theses IDENTIFIERS: Contract negotiations. Overage

Physically completed open contracts are an administrative and financial burden to the government. The Air Force had a procedure for the early closeout of cost-type contracts overage dum to succeed negotiation. This concedure was superseded by an early closeout procedure. Subsequently published in the Defense Acquisition Regulation (DAR). The primary objectives of Regulation (DAR). The primary objectives of this thesis are to (1) compare current data to previous data which indicated that overhead negotiation was the primary reason for overage contracts to determine if this condition still exists and (2) determine if the DAR early closeout procedure is accomplishing its goal. This study procedure is accomplishing its gcal. This study concludes that (1) negotiations of overnead continue to be the primary reason for contracts becoming overage; and (2) the DAR procedure hinder the early closeout of contracts by certain contractors who were previously agreeable to closing contracts using the Air Force procedure. The latter conclusion attributed to the increased cost risk to the Contractor. It recommended that a more flexible procedure me adopted for the early closeout of physically completed cost-type contracts. This flexibility will allow-procedural variations to be used as required by each particular situation. (11)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A072 670 21/5 5/1 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

Validation of the Detroit Diesel Allison Logistic Support Cost ¥odel (Program OS 590).

DESCRIPTIVE NOTE: Master's thesis.

JUN 79 82P Cresk, howard E.;
HarlBmbakis, Christopher N. . Jr: REPT. NO. AFIT-LSSR-20-79A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Gas turbines, \*Life cycle costs. \*Cost models, Military procurewall, Logistics management, Maintenance management, Department of Defense, Logistics support. Theses

The Department of Defeise (DDD) is genuinely concerned amout Operation and Support Costs (O/S) during the early stages of the aquisition process. An area of particular interest to the Air Force Aero Propulsion laboratory (AFAPL) was the validation of Detroit Diesel Allison's O/S cost model, CS590. This study was designed to assist the AFAPL in determining O/S costs for future advanced high technology turbine engines. The results of this research include the following findings: (a) input data for OSS90 within the scope of this effort was available from Air Force sources: (b) OSS90 produced valid O/S costs: (c) OSS90 was sensitive to selected input parawaters: Solves: (0) 03330 produce vario 0/3 costs. 12/ 05590 was sensitive to selected input parameters: and (d) the Pirectorate of Propulsion YZLR reviewed and agreed that OS590 was complete. (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOPOT

AD-A572 592 15/5 14/1 :/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

Summary and Analysis of the Logistics Support Cost Model Application to the ACF/ F-16 Weapon System Acquisition.

DESCRIPTIVE NOTE: Master's thesis.

JUN 79 126P Davis.William R. :W/sowski. JUN 79 John R. : REPT. NO. AFIT-LSSR-6-79A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Life Cycle costs. \*Jet fighters. \*Louiting \*upport, fost analysis. Operation. Mathematical models. \*vemon systems. Air Force procurement. Acquisition. Air Force toolstics Command. Theses
\*DENTIFIERS: F-16 jet fighters. 4-10 mingraft.

Operating and support cost models

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Department of Defense Directive 5000,2 states that Life Cycle Cost (ECC) must be considered in the acquisition of major weapon systems. One of the primary tools used in applying LCC techniques is the operating and support (0/5) cost model. One such model—Air Force Logistics Command's Logistics Support Cost (LSC) Command's Logistics Support Cost (LSC) model—has recently oven employed in the ACF/F-16 acquisition program and continues to be used in managing the f-16 program. This was only the second time an O/S type model had been used in major systems aguisition: the first was with the A-10. The question has arisen whether the use of an O/S type model been effective in acquiring systems with lower operating and support cost. Research focusing on the A-10 O/S cost model use surfaced several major deficiencies. This theris having focused on the F-16 LSC model use, indicates that improvements have Deen made, but additional improvements are necessary before the use of O/S improvements are necessary before the use of O/S type models can be fully effective. The results of face-to face interviews with General Dynamics and Northrop personnel. (nucled in the ACF/F-16 program, provided an interesting perspective and give added Gresesce to research findings and

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recommendations.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOML.

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CAVER (TROY V) DOVER NJ

Inhicitors to the Use of Life Cycle Costing: Iron lits of a Survey of Military/ Industrial Managers,

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AUG 79 27P Caver, Troy V. ;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Military procurement. \*Logistics management. Policies. Long range(Time). Decision making. Department of Defense, Cost models. Regulations. Standards (0)

This study was undertaken in an attempt to determine the reasons for limited use of life Cycle determine the reasons for limited use of life Cycle costing in material management. The author, while a member of Training and Doctrine Command in Combat Developments for six years and then in project management activities for the nuxt two years, saw a great divergence of opinion in the use of life cycle c t. The decision makers in TRADDC were conside had long range cost to the government in their Cost and Operational Effectiveness Analysis (COEA), CoD policy makers were praising life cycle cost as a decision criteria. The Defense Systems Management College taught life cycle cost as the primary consideration The Defense Systems Management College taught life cycle cost as the primary consideration for long term logistic decisions, yet the project management personnel appear to be lacking in how and when to apply life cycle cost techniques. It was apparent to the author that this was a wide spread problem which would result in continued higher long term cost to the governight unless an acceptable cost criteria could be established by DoD and provided to decision makers as implementing guidance. This study examined the attitudes of DoD policy makers, DoD project managers, and Industry project managers toward life cycle costing and their perception of the guidance and criteria in its implementation. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

ALFRED P SLOAN SCHOOL OF MANAGEMENT CAMBRIDGE MASS CENTER FOR INFORMATION SYSTEMS RESEARCH

A Normative Cost-Benefit Analysis of the Systematic Design Methodology.

(U)

DESCRIPTIVE NOTE: Technical rept..

MAY 79 73P Hoff.S. L.:

REPT. NO. CISR-P010-7905-1v. CISR-TR-10
CONTRACT: N00039-73-G-0160

UNCLASSIFIED REPORT

DESCRIPTORS: \*Information systems. \*Cost analysis.

\*Bene' is. \*Computer programming, Systems
analysis. Decomposition. User needs. Requirements.
Functional analysis. Decision making.
Optimization. Numerical methods and procedures.
Computer architecturs. Mathematical models.
Integrated Tystems. Planning
IDENTIFIERS: SCMISystematic Design Methodology).
Design. \*Systems design. Complex systems

Complex design problems are characterized by a Complex design problems are characterized by a multitude of competing requirements. System designers, funding the scope of the problem beyond their conceptual abilities, frequently cope with this difficulty by decomposing the original design problem into smaller, more manageable sub-problems. Functional requirements form a key interface between the system's users and its designers. This between the system's users and its designers. This report proposes a systematic approach for the decomposition of the overall set of functional requirements into sub-problems to form a design structure that will exhibit the key characteristics of good design: strong counting within sub-problems, and weak coupling between them. Recent work in the Systematic Design Methodology (SDM) project has led to certain extensions to the basic represent: ional model. This report presents a normat cost-benefit analysis of the SDM. It is a decision support methodology for aiding a software designer in determining an optimal structuring of a system's functional requirements. A model-oriented normative cost/benefit analysis of the SDM is presented. A set of three sub-models, pertaining to specification impact, procedural design impact, and specification impact, procedural design impact, and maintenance/modification impact, are derived.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A072 352

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VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume III.

DESCRIPTIVE NOTE: Final rept..

OCT 78 143P Greenwood.David :Klotz.

Benjamin P. :Smith.T. Arthur :Hartley.Kwith :
Pettijohn ,William C. :
CONTRACT: MDA903-76-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with SUPPLEMENTARY NOTE: Prepared in cooperation with Management Analysis, Inc., Sethesda, MD. See also Volume 1, AD-A072 348.

DESCRIPTORS: \*Economic analysis, \*Cost analysis, Tactical weapons, NATO, Military budgets, Economic warfare, International relations, Political alliances, Production Control, Control and Control Standardization, Specialization, Methodology. Cost overruns IDENTIFIERS: Cost benefits

This Technical Report describes a methodology for examining potential cost savings to the NATO community through standardization and/or specialization in weapons systems procurement. The methodology is one of Comparative Cost analysis and specifically establishes procedures for Comparing program costs for alternative weapon system buys under the or more comparing programs. program costs for alternative weapon system buys under two or more competing procurement strategies. Five procurement strategies are considered. Four alternatives were defined prior to contract start and selected by the COTR. The Fifth, termed 'National Initiative,' was developed to provide a base case. Initial consideration of the problem posed showed that potential cost savings should be identified early in the development stage. This led to a decision to structure the methodology by major subsystems. Since conventional cost estimating techniques permit estimating based on performance characteristics, and these may be the only distinguishing features in the early development stage. stage. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. Appendix II.

UESCRIPTIVE NOTE: Final rept..

OCT 78 32P Greenwood.David: Klotz.
Benjamin P. : Smith.T. Acthur: hartley. Keith
: Pettijohn.William C.:
CONTRACT: MDA903-78-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with C and L Associates. Inc.. Potomac. Md. See also Volume 3. AD-A072 352. 3, AD-A072 352.

DESCRIPTORS: \*Economic analysis. \*Cost analysis. Tactical wors. Weapon systems. Military budgets. P.\_ ction control. Standardization. Specialization. Policies. Economic warfare. Cost overruns. NATO. International relations. Political alliances

IDENTIFIERS: Cost benefits

(U)

This study surveys the literature on scale economies and learning in production to develop the basic information needed to assess the potential cost savings resulting from a rationalization and reshuffling of weapons production to the nations with the lowest cost of production. That is, a framework is constructed to measure the savings from specialization and division of labor in the production of military products. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A072 350 5/3 15/3

VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume II. Appendix I. (U)

DESCRIPTIVE NOTE: Final rept., OCT 78 95P Greenwood.David :Klotz. Benjamin P. ;Smith.T. Arthur :Hartley.Kairh : Pettijohn ,William C. : CONTRACT: MDA903-78-C-0166

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with C and L Associates, Inc., Potomac, MD. See also Volume 2, Appendix 2, AD-A072 351.

DESCRIPTORS: \*Economic analysis, \*Cost analysis, Tactical weapons, Standardization, Specialization, Production control, NATO, International relations, Military budgets, Cost overnums, Policies, Political Military States of Management (Management Cost overnums, Policies, Political Management (Management Cost overnums, Policies, Political Management (Management Cost overnums, Political Management (Management Cost overnums) Political alliances, Methodology, Industrial production IDENTIFIERS: Cost benefits (U)

Standardization is believed to offer major cost savings, but there are few published studies which provide any evidence. This study concentrates on the possible savings from standardization in weapons production. The military benefits and the savings in operating costs are not considered. Such savings could be substantial. This paper reviews the available evidence from industrial economics and international trade studies to see whether it provides any insights into the magnitude of the possible gains from weapons standardization in production. Standardization is believed to offer major cost (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A072 349 5/3 15/3

VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization.

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DESCRIPTIVE NOTE: Final rept..
OCT 78 184P Greenwood.David:Klotz.
Benjamin P.:Smith.T. Arthur:Hartley.Keith:
Pettijohn.William C.:
CONTRACT: #0A903-78-C-0166

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with C and L Associates. Inc.. Potomac. MD. See also Volume 2. Appendix 1. AD-A072 350.

DESCRIPTORS: \*Economic analysis. \*Cost analysis. Tactical weapons. Military doctrine. NATO. Production control. Policies. Political alliances. International relations. Standardization. Specialization. Military budgets. Economic warfare. Cost overruns
IDENTIFIERS: Cost benefits (U)

Contents: Context and Approach — The policy context. The analytical approach: The Budgetary Setting — Procurement in selected NATO countries' budgets. National armaments plans for the 1980s and beyond: Production Economies — Estimating production economies (1) Basic concepts and mehtods. Estimating production economies (2) Empirical evidence reviewed. and Scale economies. learning and international competitiveness: Acquisition Methods and their budgetary impact — Alternatives and assessed savings. savings.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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VERTEX CORP ROCKVILLE ND

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization.

DESCRIPTIVE NOTE:

SCRIPTIVE NOTE: Final rept., OCT 78 46P Greenwood.David :Hartley, Keith :Klotz,Benjamin :Pettijohn,William : Smith.T. Arthur : CONTRACT: MDA903-78-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A072 DESCRIPTORS: \*Economic analysis, \*Cost analysis, DESCRIPTIONS: \*ECONOMIC analysis, \*COST analysis, Tactical weapons, weapon system effectiveness, NATO, Production control, Political alliances, International relations, Standardization, Specialization, Industrial production, Economic warfare, Cost overruns, Methodology IDENTIFIERS: Cost benefits

This study defines and demonstrates interrelated methodologies for estimating the costs of cooperative NATO weapons systems production programs for (a) individual programs (the MICRO methodology) and (b) NATO Alliance member nations (the MACRO methodology). The MICRO methodology is based on standard cost estimating techniques and requires detailed upput data coopening mediates. detailed input data concerning production factors.
The MACRO methodology relies on production data
from analogous industrial activities in combination
with gross expected major system acquisitions to with gross expected major system acquisitions to estimate gross economies available to the Alliance from utilization of least cost production option. Cost estimates derived by both MICRO and MACRO methodologies are for demonstration purposes only. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A072 310

DESCRIPTIVE NOTE:

JUN 79

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17/7 ARING RESEARCH CORP ANNAPOLIS MD

LCC/DTC fasks Conducted for GPS Army User

TE: Summary rept. Oct 75-30 Jun 79. 15P Nelson.R. R. :Schaefer.J.

N.: REPT. NO. 1172-02-6-1930 CONTRACT: F04701-76-C-0028

UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Global positioning system. Design to cost. Scheduling. Mathematical models. Cost estimates. Army equipment

(11)

This report describes tasks related to life This report describes tasks related to life cyclecost/design-to-cost support of the Army user equipment development for the Global Positioning System. The tasks included life cycle cost modeling, review of development contractor cost data. analysis of program schedule and cost risks. generation of cost estimates for the Army's Cost and Operational Effectiveness Assessment, and support for the preparation of the user equipment Baseline Cost Estimate for ASARC II and DSARC II presentation. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

13/10 AD-A071 473 5/1

CENTER FOR NAVAL ANALYSES ALEXANDRIA VA

Maintenance Costs of Complex Equipment. (U)

DESCRIPTIVE NOTE: Professional paper. DEC 78 25P Stanley A.'; REPT. NO. CNA-PP-244 Sherman, Ailan ; Horowitz,

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval vessels, \*Maintenance management, \*Naval equipment, Cost analysis, Downtime, Repair, Operations research, Deterioration, Naval training IDENTIFIERS: Maintenance of complex equipment (U)

One of the chief responsibilities of Navy managers is the material condition of ships in the fleet. They must be aware of equipment deterioration and must decide how to best allocate resources to reduce equipment downtime, thereby reducing maintenance costs and improving the material condition of the fleet. Among the questions this paper addresses are: How much more is complex equipment down? and Are high quality enlisted personnel more valuable in dealing with more complex equipment? The answers to these questions indicate that fleet material condition can be improved by revised personnel policies. By more precisely assigning skilled men to ships with complex equipment, the Navy could reduce equipment downtime thereby improving readiness and decreasing maintenance costs. (Author) One of the chief responsibilities of Navy (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A071 428 13/3

FOREST PRODUCTS LAB MADISON WIS

Comparative In-Place Costs of wood and (0)

DESCRIPTIVE NOTE: Forest Service research paper.
79 44P Spelter.Henry:
REPT. NO. FSRP-FPL-334

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Structural members. \*Steel. Frames. Floors. Housing(Dwellings). Costs. Comparison

The comparative in-place costs of wood and steel light residential framing were examined for the period 1970-1978. Material and labor requirements were calculated for floor, nonload-bearing partition, and load-bearing wall framing systems using Douglas-fir and southern pine lumber, and galvanized steel shapes. Material and labor costs were those prevailing in the Chicago area. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A071 110 9/5 14/1 17/9

BATTELLE COLUMBUS LABS ONIO

Standard Electronic Module Radar Life Cycle Cost Comparison. (u)

E NOTE: final rept. 1 Jun 78-15 Jan 79, 79 125P Cork.Thomas R. : F33615-78-C-1508 DESCRIPTIVE NOTE: APR 79 CONTRACT: F3 Ph. J: 6096 TASK: 42

MONITOR: AFAL TR-79-1025

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Modules(Electronics). \*Life cycle costs, Cost analysis, Meteorological radar, Avionics, Standardization, Joint military activities, Solid state electronics, Cost estimat IDENTIFIERS: AN/APQ-122, PE62204F. (0) WUAFAL60964204 (U)

The report presents a life cycle cost (LCC) analysis of an airborne weather radar system functionally similar to the Standard Electronic Module Radar (SEMR) and compares the LCC estimates for this system to previously developed LCC estimates for the SEMR. The SEMR has been designed, fabricated and tested as a demonstration of the concepts of the TRI-service Standard Electronic Module program. A previous study analyzed the LCC characteristics of the SEMR and developed LCC estimates for specific implementation alternatives. The APQ-122V(5) radar design was selected for LCC comparison as a representative example of solid state systems composed of custom subassemblies. The LCC analysis of a SEMR-equivalent of APQ-122 system was conducted using procedures and assumptions which were consistent with those used in the previous SEMR LCC study. Results presented in this report include a comparison of baseline LCC totals and subtotals, a comparison of the sensitivity of the two sets of LCC estimates to operational parameters, and an analysis of how the critical assumptions used in developing the SEMR equivalent APQ-122 LCC estimates The report presents a life cycle cost (LCC)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A071 068 13/6 15/5

ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY ABERDEEN PROVING GROUND NO

A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks.

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DESCRIPTIVE NOTE: Technical rept..
JAN 79 48P Bell.Raymo JAN 79 48P Robert :Belbot.Edward : Bell.Raymond : Mioduski. REPT. NO. AMSAA-TR-251 PROJ: 187657664541

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Trucks. \*Waintenance. Cost analysis. Performance(Engineering). Reliability. Maintainability. Comparison. Statistical analysis. Replacement (U) IDENTIFIERS: M-35 trucks. M-35A2 trucks. 2-1/2-Ton trucks. Availability. Overhauled trucks.

ASS41, PE65706A A comparison of the maintenance costs, and reliability, availability and maintainability (RAM) characteristics of new and overhauled 2-1/2 ton trucks is presented. This comparison was based on the performance of 259 new and 252 overhauled M35A2 2-1/2 ton trucks operated by the 9th Infantry Division. Ft. Lewis, Washington, over a four year period. The 511 venicles evaluated in this study accumulated a total of 2.7 million miles with the individual new and overhauled vehicles Study accumulated a total of 2.7 million me the individual new and overhauled vehicles accumulating mileage histories up to 19.000 and 11.000 miles. respectively. (Author)

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CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A070 937

TECHNION - ISRAEL INST OF TECH HAIFA FACULTY OF INDUSTRIAL AND MANAGEMENT ENGINEERING

Interpretations of Task Difficulty in Terms of Resources: Efficiency, Load, Demand, and Cost Composition.

(U)

DESCRIPTIVE NOTE: Technical rept.. NOV 78 46P Navon.David :Gopher.Daniel : CONTRACT: AFOSR-78-3131

PROJ: 2313 TASK: 'A2

MONITOR: AFOSR, AFOSR

79-0828,78-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Job analysis, Processing,
Performance(Human), Tracking, Resources,
Allocations, Time dependence, Efficiency, Cost
effectiveness, Theory, Test
construction(Psychology), Israel
IDENTIFIERS: Workloads, Task analysis,
Difficulty, Pursuit tracing, PE61102F,
WUAFOSR2313A2 (U) (U)

The effect of task difficulty on performance can be conceptualized within a theory which posits that performance depends on the use of resources from a single pool. When the difficulty of a task is said to increase it may mean either that resources invested in it can now do less (i.e., a decrease in efficiency), or are now required to do more (i.e., an increase in load), or have now less time to do it (i.e., a stricter limit on processing duration). Either way, difficulty should most often interact with resource investment in such a way that effects of resource investment on quality or speed of performance are more pronounced the easier the task. of resource investment on quality or speed of performance are more pronounced the easier the task. If the processing system is viewed as comprised of a number of mechanisms each having its own capacity, which may be considered as a separate resource, then a difficulty manipulation may affect differentially the use of each of those capacities. If in a dualtask situation manipulation of the difficulty of one task affects the use of a mechanism which is not required by the other task, processing of the latter may remain intact under some circumstances. أعالكك سيدالك سابا

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A070 629 14/2

DYNAMIC SCIENCES INTERNATIONAL INC SEPULVEDA CA

Test Program Set Cost Algorithm. (U)

DESCRIPTIVE NOTE: Final rept. 21 Sep 77-Apr 78. MAY 75 69P Zi Al V. : "Cintyre.Dave : CONTRACT: DA#B07-77-C-2727 PROJ: 1L7627794H62 TASK: 01 Zingg.D. dames :Robertson.

pe62779a

MONITOR: COPADCOM 77-2727-F-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Test equipment. \*Life cycle costs.
Automatic. fest sets. Algorithms. Cost analysis. Learning curves. Test methods. Management engineering. Computer programs IDENTIFIERS: \*TPS(Test Program Sets). Test management. Testability. WU011. ASH62.

The Test Program Set Cost Algorithm provides a methodology for identifying and quantifying the funding costs of major tasks in Test Program Sets (TPS's) development. Areas that are addressed by the study include the learning curve effect, impact of ATE maturity. impact of UUT (Unit Under Test) Testability. effect of design guides on development and life-cycle Costs. management-controlled cost factors. Utilization of Automatic Test Program utilization of Automatic Tert Program Generation (ATPG), development costs vs. life-cycle costs, fault insertion and customer 'seli-off', and commercial vs. military support. The basic algorithm deals with the analysis, coding, checkout and sell-off of a test program set but other factors such as overhead support, interface device design. ATE compatibility, etc., are discussed. The application and usage of the algorithm should provide a valuable estimating tool to assess costs associated with Test Program Set development. (Author) (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A070 092

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NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Decision Criteria for Cost-Plus-Award-Fee Contracts in Major Systems Acquisitions.

DESCRIPTIVE NOTE: Master's thesis. Jenkins. Gwilym Howard . Jr:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Contract administration, \*Costs, Management planning and control, Decision making, Allocations, Contracts, Risk, Weapon systems, Military procurement, Management information systems, Acquisition, Theses IDENTIFIERS: Cost plus award fee contracts, Organization theory, Project Vanagement

The Cost-Plus-Award-Fec contract has useful application in Major Systems Acquisition during the full-scale development phase. This thesis with Leavitt's Organizational Theory model which identifies goals, technology, people, structure, and environment as factors for analysis. It further investigates cost reimbursement contract types versus technical risk for identification of

those criteria, which best accommodate application of the CPAF contract in major systems acquisition. This thesis concludes that the CPAF contract can be viewed as an informal management information be viewed as an informal management information system to enhance project control. It summarizes basic strengths and weaknesses of the CPAF contract

in major systems acquisition.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 5/1

AD-A070 037

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TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO

A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs.

(U)

DEDURIPTIVE NOTE: Final rept..

MAY 79 116P Nutter.Roger V.:Cordell.

Curtis C.:Heidt.Edward A.:

REPT. NO. TAEG-68

UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval training. \*Cost analysis. \*Management planning and control. \*Management training. Decision making. Cost estimates. Education. Case studies. Economic analysis. Ships. Military training. Cost models

(U)

This is the second of two reports addressing the alternatives available for the development of Navy initial training courses; i.e., contract. Navy. or Navy/contractor developed. The first. TAEG Technical Memorandum 77-5. Precommissioning Training, only 1977, presented a technique for estimating the cost of Navy developed initial training courses and recommended case studies of a representative sample of surface ship initial training programs to further explore the available alternatives. Based on this recommendation, five alternatives. Based on this recommendation, five major acquisition programs were selected for study. Results of these studies indicated the need for a standard procedure for maintaining and disseminating historical cost and management of initial training data. As a result of the nine training device Course programs sampled, a Computer based cost Course programs sampled. a computer based cost management control procedure was developed. The procedure is designed to assist program managers in selecting the most efficient initial training alternative, preparing initial budgetary estimates, and performing contractor cost proposal evaluations. Validation and refinement of the procedure is required. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M97

AD-A070 020 7/3 7/1

CALLERY CHEMICAL CO PA

Design of a Facility to Implement a Low Cost Process for Production of NHC. (U)

5/3

DESCRIPTIVE NOTE: Final technical rept. 16 Nov 76-31 Oct 77.

MAY 79 317P
REPT. NO. CCC-79-66
CONTRACT: DAAK40-76-C-:256

UNCLASSIFIED REPURT

Availability: Document partially illegipia. SCRIPTORS: \*Carboranes, \*Industrial plants, DESCRIPTORS: \*Chemical engineering, Production engineering, Industrial production, Experimental design, Hexyl radicals, Pilot plants, Scale models, Safety, Pyrolysis, Low costs (111)

This report and its referenced documentation provide the detailed engineering design of a facility for the production of 30,000 lbs/yr of n-hexyl carborane (NHC). The design criteria and design vasis incorporate bench scale and small scale production data and experience to provide a safe, low cost process for conversion of diborane to decaborane by a unique continuous pyrolysis process. Decaborane is subsequently converted to NHC by batch solution processing. Process description, process flow diagrams and engineering flow diagrams fully describe the production facility. Process hazards are discussed and process safety features fully describe the production facility. Process hazards are discussed and process safety features described. Principal hazards are borane toxicity and fire hazard of flarmable materials and solvents. Design implementation is outlined with identification of equipment and support facilities for process demonstration, demonstration and support of low rate production and ultimate expansion to full scale design capacity. Detailed engineering drawings, specifications, calculations and other design documents are listed. Listed documents are maintained for record and for retrieval and usage by interested parties. (Author) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A069 973 5/1 14/1 1/3

ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT NEUILLY-SUR-SEINE (FRANCE)

Methodology for Control of Life Cycle Costs for Avionics Systems.

DESCRIPTIVE NOTE: Lecture series. APR 79 154P REPT. NO. AGARD-LS-100

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at a Lecture Series SUPPLEMENTARY NOTE: Presented at a Lecture Series under the sponsorship of the Avionics Panel and the Consultant and Exchange Programme of AGARD. Bonn. Germany. <sup>c</sup>. R. 7-8 May 79 and Athens. Greece 10-11 May 79.

DESCRIPTORS: \*Life Cycle Costs. \*Management planning and control. \*Avionics. Cost analysis.

Methodology. Cost estimates. Parametric analysis. Systems engineering. Reliability(Electronics). Military aircraft. Military procurement. Logistics support. Trade off analyses. Risk IDENTIFIERS: NATO furnished

Contents: Introduction to Methodology for Control of Life Cycle Costs for Avionics Systems: Life Cycle Cost Analysis -- Concepts and Procedures. The Development and Implementation of Life Cycle Cost Methodology: Recent Experience in the Development and Application of Life Cycle Cost Models: and Problems in the Investigation of Reliability-associated Lifecycle Costs of Military Airborne Systems.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A069 968 6/8

> ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND MA FOOD ENGINEERING LAB

Cost of Irradiating Bacon and the Associated Energy Savings.

VESCRIPTIVE NOTE: Technical rept.,
MAR 79 12P Brynjolfsson.Ari;
REPT. NO. NATICK/FEL-89
PROJ: 11162724AH99
TASK: DA
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MONITOR: NATICK TR-79/022

UNCLASSIFIED REPORT

DESCRIPTORS: \*Irradiated food. \*Cost analysis. \*Bacon, Sterilization, Freezing, Nitrites, Energy conservation, Test and evaluation. Acceptance tests
IDENTIFIERS: PE62724A, ASH99, WU010

This paper is about costs and energy savings obtained by irradiating bacon. Sterilized by irradiation (25 kgy), bacon without added nitrite does not contain nitrosamines and does not constitute botulism hazard. If bacon is irradiation sterilized while refrigerated, the cost of irradiation is about \$0.08/1b; if irradiation-sterilized while frozen, the costs of irradiation and freezing would be about \$0.03/1b. Substerilizing irradiation doses of 7.5 to 15 kGv would give about 80 days extension of to 15 kGy would give about 80 days extension of bacon stored and distributed refrigerated. The irradiation costs. In this case, would be about \$0.07/lb. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGFAPHY SEARCH CONTROL NO. 20#07

AD-A069 791

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CONSAD RESEARCH CORP PITTSBURGH PA

Cost Analysis of Air Force On-the-Job Training: Development and Demonstration of a Methodology.

(U)

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DESCRIPTIVE NOTE: Final rept. 20 Aug 76-25 Jul 78.

MAY 79 231P Eisele.Charles R. :Bell.

Thomas R. :Laidlag.Charles D. :
CONTRACT: F33515-76-C-0063

PROJ: ILIR TASK: 00

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MONITOR: AFHRL TR-78-88

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Air Force training. \*Uob training. Cost estimates. Systems analysis. Personnel management. Careers. Reliability IDENTIFIERS: WUAFHRLILIRC052. PE61101F

The Air Force on-the-job training (OUT) cost estimating methodology documented in this report is applicable to formal airman upgrade training to the 3.5. and 7 skill levels. The methodology can be used to provide reasonable cost estimates for budgeting and planning purposes at various command levels and for various time intervals. Design of the methodology has emphasized use of existing data bases to derive direct OUT costs. Cost elements which have been quantified include program overhead costs at all command levels, personnel time cost for actual training and supervision, and program support costs such as for career development courses and the Extension Course Institute. Recommendations have been made concerning equipment and opportunity have been made concerning equipment and opportunity costs. The methodology employs additive cost factors which are sensitive to DUT cost variation among career fields and among organizations at each command level. Periodic factor reestimation will insure cost factor currency allowing DUT cost forecasts driven by forecasted DUT trainee-month volumes. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A069 763

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ILLINOIS UNIV AT URBANA-CHAMPAIGN COORDINATED SCIENCE

An Analysis of Storage, Retrieval, and Update Costs for Data Bases which are Tables of Entries.

(U)

DESCRIPTIVE NOTE: Master's thesis.

JUN 78 63P Warner, M.rk Kenneth:
JEPT. NO. R-816, UILU-ENG-78-2209
CONTRACT: DAAB07-72-C-0259, NSF-ENG-75-20864

UNCLASSIFIED REPORT

DESCRIPTORS: \*Data management, \*Data storage systems, Information retrieval. Cost analysis. Tables(Data), Information theory, Data bases, Computer applications, Machine coding, Theses IDENTIFIERS: Trees(Mathematics) in

The performance of retrieval systems for tables of entries is investigated. The system costs considered are the cost of storing a representation of a table, the cost of retrieving an individual table entry, and the cost of updating the table by adding or deleting the last entry. Several systems are presented and their costs are analyzed. For are presented and their costs are analyzed. For each type of cost a lower bound is derived, though in some cases it is for a restricted situation (such as for bounded table size). It is found for the problem presented that the actual storage cost and problem presented that the actual storage cost and the lower bound on storage cost are both on the order of lw+1g(1), where I is the number of entries in the table and w is the entry size. The bourds on both retrieval cost and update cost are found to be on the order of w. mhile the actual costs of the best systems presented are on the order of u-1g(1). (Author) (U) UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A069 527 16/4.1 5/1

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ADMINISTRATIVE SCIENCES CORP FALLS CHURCH VA

Navy Air-Launched Wissile Operating and Support Cost Estimating Model.

(0)

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APR 79 192P He REPT. NO. ASC-R-118 CONTRACT: NOGO14-77-C-0180 Heilig.Paul T. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Air to air missiles. \*Cost models. Cost estimates. Logistics support. Maintenance. Naval training. Naval equipment

The Cost Analysis Improvement Group (CAIG), which is responsible for policy and guidance for cost analysis in the Department of Defense, issued a memorandum which contained an Defense. issued a remorandum which contained an operating and support cost element structure (CES) for tactical air-launched missiles, to be used in all Defense System Acquisition Review Council reviews and other missile cost analyses. Accordingly, the Resource Analysis Group (Op-96D), which is responsible for independent cost analysis within the Navy, tasked Administrative Sciences Corporation to undertake a study. The CES which as a divisional Administrative Sciences Componation to undertake a Study. The CES which was developed contains sixteen cost elements which define and encompass the same activities described in the CAIG memonandum. Each cost element is discussed in detail in the body of this report. All pertinent data which was collected curing the study is included, as well as examples of Navy documents which can be used for cost estimating in the future. Each source is identified by a point of contact and a DOD telephone number. All explanatory variables a DOD telephone number. All explanatory variables which were employed in the study, whether used in a cost-estimating relationship or not. are also included.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A069 389 5/1 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB CH

Design to Cost (DTC) Implementation Guidance.

(U)

JAN 78 Brian S.; Menker.Lavern J. : #ilis.

UNCLASSIFIED REPORT

DESCRIPTORS: \*Design to cost. Contracts. Life cycle costs. Logistics management (U) UNCLASSIFIED

DDC REPORT BIBLIOGPAPHY SEARCH CONTROL NO. ZOWOT

AD-A069 388 5/1 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB CH

Life Cycle Cost Management Guidance for Program Managers.

(U)

DESCRIPTIVE NOTE: 4TH EDITION.
JUL 78 34P Gibson
Brian 5.: Gibson.Jonn D. S. :Mills.

UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. %inagement. Logistics management

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AD-A069 388

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20407

AD-A069 212 5/3

HARVARD UNIV CAMERIDGE MASS

(U) Parsto Efficiency with Costly Transfers.

DESCRIPTIVE NOTE: Technical rept.. MAY 79 20P Arrow .Ken MAY 79 20P APPREPT. NO. TR-33 CONTRACT: NO0014-76-C-0135 Arrow .Kenneth J. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Economic models. Efficiency Distribution, Resources, Allocations, Decision making, Costs, Transfer IDENTIFIERS: \*Pareto allocations, wunr47004 (U)

The concept of Pareto efficiency, as ordinarily applied, implies that costless redistributive transfers are possible. This paper generalizes the concept to a simple case where transfers of a given good involve losses mesasurable in that good. The Pareto efficiency of a given allocation then depends on the initial distribution endowments. For a given allocation, then, we can ask: (1) whether there exists any endowment allocation for which the given allocation is Pareto efficient; and (2) if there is, what is the class of endowment allocations for which it is efficient. These questions are answered in the paper. (U) answered in the paper.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

5/1 AD-A069 120 13/10

KAITZ (EDWARD M) AND ASSOCIATES INC WASHINGTON DC

Forms of Gwnership and a Cost-Effective Shipbuilding Industry.

(U)

DESCRIPTIVE NOTE: Final rept. Sep 78-May 79. MAY 75 106P REPT. NO. EMA-79-1 CONTRACT: NOC014-78-C-0569

UNCLASSIFIED REPORT

DESCRIPTORS: \*Shipbullding. \*Shipyards. \*Management. Cost effectiveness. Industries.
Regulations. Public utilities. Naval vesels.
Costs. Japan. western Europe. United States.
Government(Foreign). Finance. Efficiency

(U)

IDENTIFIERS: Nationalization. Private industry. Dwnersh ip

This study reviews and analyzes the potential impact on shippand efficiency of the three modes of ownership possible in the United States: a fully ownership possible in the United States: a fully nationalized shipbuilding industry, an industry organized as a public utility, and a privately owned and conventinally financed industry. Particular emphasis was given to analysis of the potential for creating a shipbuilding public utility since it was initially believed that the scope and content of the regulations imposed on a utility might help to induce a more cost-effective industry. This, indeed, is the main concern of this project—the least cost construction of naval comparants. Based upon their enalysis, the writers believe that changing the sode of ownership of the industry or its capital structure will not, by itself, solve the underlying problem. Their analysis suggests that cost control is a management function distinct and apart from the ownership function, and should be so treated. In this recard, their analysis now suggests that either nationalizing the industry or creating a shipbuilding nationalizing the industry or creating a shipbuilding utility as opposed to the continuing private ownership of the industry may serve to increase shipbuilding costs both in the short— and long— (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A068 993

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TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES

Transforms and Approximations in Cost and Production Function Relations.

(U)

DESCRIPTIVE NOTE: Posearch rept. DESCRIPTIVE NOTE: Research rept..

MAR 79 25P Charnes.A.; Cooper.W
Schinnar.A. P.;

KEPT. NO. CCS-339

CONTRACT: NO0014-75-C-0516. N00014-75-C-0569 Charnes.A. (Cooper.W. W. :

## UNCLASSIFIED REPORT

SUPPLEWENTARY NOTE: Sponsored in part by N00014-75-C-0932 and NSF-SOC76-15876.
DESCRIPTORS: \*Economic analysis. Cost analysis.
Decision making. Efficiency. Fourier transformation, Laplace transformation.
Approximation(Mathematics). Production (U) IDENTIFIERS:

DENTIFIERS: \*Production functions. \*Economic Models. Duality Theory. MUNRO47021 (11)

Process analysis and related approaches to the Process analysis and related approaches to the study of energy economics have made extensive use of Shephard's lemma as well as other aspects of the Shephard-Samuelson transfor ation theories. A major problem is shown to be present in the use of these transforms to go from cost functions to production possibility sets in that the latter will always be unbounded above. Capacity conditions, which are especially important in energy policy studies, are therefore not adequately addressed. Troubles also occur in the use of translog approximations because of the functional forms which can result when the Shephard-Samuelson transformations are employed. Nondiffferentiability transformations are employed. Nondiffferentiability is not the primary difficulty with the translog approximations as is shown with an infinitely differentiable function. Relations between other parts of mathematical transform theory. e.g. as exhibited in Laplace transforms, are also indicated along with possible extensions that might be the Shephard-Samuelson 'duality' theories. (Author) (U)

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UNCLASSIFIED DOC REPORT ELBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-4058 72:

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ROCKWELL INTERNATIONAL EL SEGUMDO CA LOS ANGELES DIV

Aircraft Transparency Failure and Logistical Cost Analysis. Volume III. Transparency Analysis.

: 113

DESCRIPTIVE NOTE: Final rest. Jun 77-Sep 78.

DEC 78 215P Brown.S. S.:

REPT. NO. NA-76-604-VOL-3

CONTRACT: F33615-77-C-3060

PROJ: 2402

TASK: 03

MONITOR: AFFOL TR-78-153-VOL-3

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-AGER

DESCRIPTORS: \*Aircraft canopies. \*Windshields JESCRIPTURS: "Aircraft canonies. \*Mindshields. \*Mindswas. \*Transparent panels. \*Life Cycle costs. Aircraft maintenance, Logistics support. Repair. Replacement. Trade off analyses. Maintainapility. Reliability. Cost effectiveness. Data bases.

Regression analysis
IDENTIFIERS: PE62201F, MUAFFDL24020302

(U)

The Rockwell Maintenance Analysis Model (MAM) process wass used to extract cost data from the KO51 LSC system, and maintenance failure modes from the AFM 65-1 maintenance data collection

from the AFM 55-1 maintenance data collection
system in order to conduct a detailed logistical cost
and failure analysis. The cost and maintenance
frequencies were utilized to propoint the most
productive areas for life cycle cost reduction. A
comber of potential improvement studies were
identified in the initial phase of this program.
However, the effort required to research, analyze,
and assemble these data. Limited the development to
five design improvement studies. These factors.
Coupled with the relative importance of the aircraft
in the Air Force inventory, initiated the search
for concepts that would dure or substantially reduce
the failures identified in the above noted MAM's
process. The verification of the fessibility of the
proposed changes was accomplished by trading the
projected 10-year life cycle cost of the existing
concept to the costs of the development.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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ROCKWELL INTERNATIONAL EL SEGUNDO CA 1.05 ANGELES DIV

AirCraft Transparency Failure and Logistical Cost Analysis. Volume II. Design Data and Maintenance Procedures.

DESCRIPTIVE NOTE: Final rept. Jun 77-Sep 78, DEC 78 152P Brown, S. S.; REPT. NO. NA-78-60¢-VOL-2 CONTRACT: F33615-77-C-3060 PROJ: 2402 TASK: '03

MONITOR: AFFDL TR-78-153-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A068

721.
DESCRIPTORS: \*Aircraft canopies. \*Windshields.
\*Windows, \*Transparent panels, \*Life cycle costs.
Aircraft maintenance. Logistics support. Repair,
Replacement, Trade off analyses, Maintainability,
Reliability, Cost effectiveness, Data bases
IDENTIFIERS: PE62201F, WUAFFDL24020302

(U) (U) The aircraft transparency and logistical cost analysis program is aimed at reducing the logistical

analysis program is aimed at reducing the logistical costs associated with transparency systems for 20 of the rurrent Air Force inventory aircraft. The approach for achieving this goal was to collect all information relating to the physical and performance characteristics and maintenance historical data of the selected study aircraft. These data provide the means of initiating search for design improvement and cost reduction studies. In order to assess the maintenance and it is it cal support activity as currently being practic the Air Logistics Centers and Air Force Operational Bases, both maintenance and installation procedures, as well as qualification and testing procedures, for transparency components and support systems were collected. These data were assembled to determine the support structure level of effort and costs to identify those procedures and practices where cost identify those procedures and practices where cost reduction may be achieved.

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ROCKWELL INTERNATIONAL EL SEGUNDO CA LOS ANGELES DIV

SEARCH CONTROL NO. ZOMO7

DESCRIPTIVE NOTE: Final rept. Jun 77-Sep 78.

DEC 78 68P Brown.S. S.;

REPT. NO. NA-78-604-VOL-;

CONTRACT: F33615-77-C-3660

Aircraft Transparency Failure and Logistical Cost Analysis Volume I. Program

DDC REPORT BIBLIOGRAPHY

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PROJ: 2402 TASK: 03

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MONITOR: AFFOL TP-78-153-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NC'E: See also Volume 2. AD-A068

720.
DESCRIPTORS: \*- rcraft canopies. \*Windsmields.
\*Windows. \*Transparent anels. \*Life cycle costa.
Aircraft maintenance. Logistics support. Repair.
Replacement. Trade off analyses. Maintainability.
Reliability. Cost effectiveness. Data bases
IDENTIFIERS: PE62201F. WUAFFDL24020302 (U) (U) The concern for increasing costs in the maintenance of transpareruy systems has prompted the Air

of transpareruy systems has promoted the Air Force Flight Dynamics Laboratory to suchsor this study contract. The objective of this study is to identify the high-cost, high-maintenance transparency components, identify cause of failures, and recommend corrective programs to reduce cost of ownership to the Air Force Logistics Command. The sudy involved the review of 20 selected aircraft in current Air Force inventory to establish an extensive data base relating to transparency maintenance activity and associated transparency maintenance activity and associated logistical support costs. During this study, a collection of detailed design characteristics. methods of construction, test and qualification, and costing information was assembled. From these data, the basis for design improvements were determined. The approach used in the identification of candidate improvements was to focus on the high-cost Contributors to maintenance and rapair.

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DAYTON UNIV UHIO RESEARCH INST

Predicte . Crack Repair Costs for Aircraft

Structures. DESCRIPTIVE NOTE:

DESCRIPTIVE NOTE: Final technical rept. Jun 77-Sep 78.

NOV 78 83P Berens.Alan P.;

CONTRACT: F33615-77-C-0800

(U)

MONITOR: ASD TR-78-39

UNCLASSIFIED REPORT

DESCRIPTORS: \*Airframes, \*Cracking(Fracturing). \*Repair, \*Computer programs, Cost analysis,
Mathematical prediction, Crack propagation,
Operational readiness, User needs, Specifications,
Air Force operations, Data acquisition,
Maintenance management, Flight testing (U)

This report presents the results of a study designed to (1) prepare a computer program for use in predicting expected repair costs of the Cracks which develop during the operational usage of a structure; (2) to provide a document which describes the use of the computer program and guides a potential user in the specification of the required input; and (3) to use data which is reasonably representative of Air force experience as input for use in determining the sensitivity of expected maintenance costs to variations in input. Results are provided which compare expected coats for changes in inspection intervals, quality of inspection, quality of repair, operational usage, and equivalent initial flaw size distributions. (Aythor)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A068 577 6/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost-Performance Relationships for Use with the Uniform Chart of Accounts for Militart Medical Treatment Facilities.

(U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 79 13EP Olson.Steven Duane:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost effectiveness. \*Health Care facilities. \*Military medicine. Medical services. Department of Defense. Accounting. Output. Measurement. Costs. Cost analysis. Hospitals.

(U)

This study was an attempt to identify those attributes characteristic of a suitable measure. Suggest cost-performance relations! ps which are capable of being supported by the uniform chart of accounts, and test these relationships with data from the ten military sites selected to test the chart of accounts. Based upon the analysis, a recommendation as to the suitability of the relationships as a basis for comparisons was made. Finally, recommendations which may improve the utility of the uniform chart of accounts were also offered.

AD-A068 699

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Lease versus Buy Decision Methodology for the Army: A Proposal.

DESCRIPTIVE NOTE: Master's thesis. MAR 79 85P Clifton. Herbert Charles :

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Army procurement. \*Leasing. \*Decision making, Cost analysis. Economics. Methodology, Mathematical models. Theses IDENTIFIERS: Cost benefit analysis (U)

The Army currently does not have a prescribed uniform methodology to determine the lease versus buy financing of items procured from private industry. Also, when lease versus buy decisions have to be made, the decision is often a separate one after the system has been chosen by a cost-benefit analysis. Discount rate, salvage value, tax rates, depreciation, and risk are all elements that directly affect the least versus buy determination in both depreciation, and risk are all elements that directly affect the lease versus buy determination in both industry and government transactions. However. total agreement as to the application of these elements to the final decision is lacking within the Army. Based on the literature available, a lease versus buy methodology is determined. Also, it is shown how this method should be part of a one setp cost-benefit analysis instead of a two step method to be used by the Army when leasing is a viable financing alternative. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A068 268

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17/7

ARINC RESEARCH CORP ANNAPOLIS MD

Avionics Cost Development For Use of Loran-C Navigation Systems By Low Performance General-Aviation Aircraft.

(U)

(11)

DESCRIPTIVE NOTE: Final rept..

APR 79 25P Kowalski.S. H.:

REPT. NO. 1326-01-8-1906

CONTRACT: DOT-FA76WA-3788

# UNCLASSIFIED REPORT

DESCRIPTORS: \*LORAN. \*Cost effectiveness.
Avionics. Cost estimates. Methodology. Global positioning system. Systems engineering IDENTIFIERS: \*LORAN-C

This avionics cost study of the Long-Range Navigation (LORAN-C) system used by low-performance general-aviation aircraft, performed for the Federal Aviation Administration (FAA) the Federal Aviation Administration (FAA)
Office of Systems Enqineering Management
(OSEM), was based on a uniform approach to cost
estimating with the assistance of a pricing model.
The system evaluated is the Teledyne TDL-711
LDRAN Micro-Navigator, with appropriate design
and packaging modifications to meet the less
stringent environmental and packaging requirements of
general aviation. The LDRAN-C system in its
airborne configuration requires a receiver, a control
and display unit, and an antenna with a built-in
coupler. The expected costs of the avionics
required by single—and light-twin-engine aircraft
were developed by using a parametric cost-estimating required by single—and light-twin-engine aircraft were developed by using a parametric cost-estimating model. These costs, shown in Table S-1, are in 1977 dollars, without inflation, and are based on annual production quantities of 1.000 units. Development costs were amortized over a 3.000-unit production quantity. The 1977 dollars were used to facilitate comparisor with other cost results of

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alternative navigation systems previously evaluated by ARINC Research for the FAA. (Author)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A068 175 5/1 9/2 1/3

ADMINISTRATIVE SCIENCES CORP FALLS CHURCH VA

Naval Aircraft Operating and Support Cost-Estimating Model - FY77 Revision. (U)

FEB 79 200P REPT. NO. ASC-R-120 CONTRACT: N00014-77-C-0180

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of Rept. no. ASC-R-116 dated Mar 78, AD-A053 180. dated Mar 78, AD-AOS3 180.
DESCRIPTORS: «Cost estimates, \*Naval aircraft,
Computerized simulation, Computer program
documentation, Life cycle costs, Parametric
analysis, Regression analysis, Data bases,
Instruction manuals, Management information systems,
Flight crews, Maintenance, Logistics support,
Airframes (U) Airframes

In fiscal 1974. Administrative Science Corp. developed a parametric cost-estimating model which has been updated and documented several times and nas been updated and documented several times and used to support numerous Defense Systems Acquisition Review Council (DSARC) reviews as well as other cost reviews. This report provides a detailed documentation of the cost-estimating relationships (CER's) developed from FY77 data. In addition, the report has been significantly In addition, the report has been significantly enhanced in order to serve as a handbook and training aid for Op-96D aircraft analysts. Fire each cost element in the structure, this report provides: (1) a definition; (2) discussion of the definition and other aspects of now, where, and why these costs are incurred, points of contact including organizational codes and telephone numbers, historical data, and sources for planning data; (3) cost-estimating relationship, including all computational procedures, regression statistics for the CER, and the data base, (4) an alternative CER (in many cases) with the same detail as above; and, (5) an example calculation. calculation. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A067 997 11/6 5/3

ROCKWELL INTERNATIONAL EL SEGUNDO CA LOS ANGELES DIV

Lower Cost by Substituting Steel for

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DESCRIPTIVE NOTE: TE: Final rept. Aug 75-Oct 78. 447P Parker.O. E. :Bennett.G.

NOV 78 447P Par V.;Robelloto.R. P.; REPT. NO. RI/LAD/NA-78-41S CONTRACT: F33615-75-C-3109 MONITOR: AFFOL TR-78-186

IDENTIFIERS: Titanium alloy 6A1 4V

UNCLASSIFIED REPORT

DESCRIPTORS: \*Steel. \*Titanium alloys. \*Industrial production. Cost analysis. Airframes. Fabrication. Technology transfer. Heat treatment. Machining. Fracture(Mechanics). Stress corrosion.
Tolerances(Mechanics). Weight reduction

This program was part of an overall program to This program was part of an overall program to develop a nigh-strength steel. designated AF1410. which compares favorably with titanium in strength/weight efficiency and fatigue characteristics and yet can be produced at a significant reduction in cost. The Rockwell portion of the overall program consisted of selecting existing candidate designs, developing steel substitute designs, and comparing their estimated cost with their titanium their estimated cost with their titanium counterparts. It also consisted of development of hearttreat processes to optimize machinability and of a comprehensive materials test program. Finally, the program included the machining of a full-scale test article from a forging provided by the Air Force from another portion of the program, and the fatigue, damage tolerance, and static residual trends testing of the full-scale article. strength testing of the full-scale article. In addition, validation of the production cost reduction was a prime objective. During testing, cracks developed which were subsequently analyzed as being the result of excessive deflections. An in-test repair was accomplished, and the testing was successfully completed. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A067 949 5/1

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NOTRE DAME UNIV IN DEPT OF MARKETING

Transportation Costs as a Consideration in Air Force Contracts.

(11)

DESCRIPTIVE NOTE: Final rept. 15 Aug 78-30 Apr 79.
MAR 79 161P Stock, James R.; MAR 79 161P Sto

### UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: \*Transportation, \*Contract
administration, \*Cost analysis, Methodology, Air
force equipment, Regulations, Costs, Air force
procurement, Standardization
IDENTIFIERS: FOB origin costs, FOB destination (U) (U) costs

Basically, the transportation decision coupled with the service constraints (priority and sensitivity) of the item (s) being transported. With this understanding, the scope of the research study was determined to include: the identification of relevant transportation costs involved in Government determined to include: the identification of relevant transportation costs involved in Government-sponsored and/or contractor-sponsored carriage: the development of a methodolcyy for identifying and evaluating F.O.B. origin versus F.O.B. destination alternatives; and to determine the feasibility of applying economic criteria to the transportation decision. Assuming various environments to test the sensitivity of the estimate of the cost components of the F.O.B. terms of shipment decision, several conclusions were reached: (1) A significant number of Air Force contracts could be awarded F.O.B. origin in lieu of F.O.B. destination; (2) The basic cost components which must be considered when comparing F.O.B. origin and F.O.B. destination terms of shipment include carrier rates, transportation administration expense, claims administration expense, contractor surcharge and destination change (ASI) costs; and (3) Significant dollar savings might be involved in utilizing F.O.B. destination terms.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A067 882 14/1 9/2

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA NIGHT VISION AND ELECTRO-OPTICS LABS

9/3

Life Cycle Cost Analysis Model. Part I. The Mathematical Model. (U)

DESCRIPTIVE NOTE: Research and development technical rept.. MAR 79 49P Strota.David B. : Morrow. Walter B. , Un.: Skelton. Jerry P. : \$1 jgers.

Henry K. : REPT. NO. DELNV-TR-0004

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computerized simulation Costs, Electronic equipment. Cost analysis. Economic analysis, Computer programs. Investments. Electronics, Electrooptics, Infrared equipment. Night sights. Light emitting diodes. Arrays. Remotely piloted vehicles IDENTIFIERS: CDC 6600 computers. AN/VSG-2. AN/

PART I of this report describes the development of a mathematical model for the life cycle cost analysis of electronics, electro-optical, optical, and opto-(U) mechanical systems.

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DDC REPORT DIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

13/2 5/3

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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Systems Approach to Life-Cycle Design of Pavements. Volume II. LIFE2 System Documentation.

DESCRIPTIVE NOTE: Final rept.,

JAN 79 458P Lindow,Edward S.;

REPT. NO. CERL-TR-M-253-VOL-2

PROJ: 4A763734DT06

TASK: 01

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A064 698.
DESCRIPTORS: \*Pavements. \*Life cycle costs.
\*Systems approach. \*Computer programs, Maintenance
management, Runways, Civil engineering, Flow
charting, Construction, Army Corps of Engineers, Roads, Subroutines IDENTIFIERS: LIFE2 Automated System, WU001, AST08, PE63734A (U) (U)

This report is the second of a three volume final report which documents an automated system. LIFE2, for analyzing pavement designs and maintenance and repair strategies based on life-cycle costs. LIFE2 models existing Corps of Engineers criteria for designing both rigid and flexible pavements for airfields, roads, and streets. The program also includes analytical procedures for evaluating earthwork, drainage, and frost protection requirements in addition to maintenance costs. The resulting combinations of design schemes and maintenance strategies are ranked by total cost over the design life of the pavement. Volume I is the LIFE2 User Manual, Volume II is the LIFE2 System Documeniation, and Volume III is the LIFE2 Program Listing. (Author) (U)

## UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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AD-A067 667 9/5 14/1

NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA

Low Cost Components: Selection and Acquisition of Microelectronic Devices.

DESCRIPTIVE NOTE: Final cept. May 77-Sep 78.
FEB 79 50P Townsend.J. H.:
REPT. NO. NOSC/TD-223
MONITOR: GIDEP E150-2362

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Microelectronics. \*Microeircuits.
Cost effectiveness. Reliability(flectronics).
Low costs. Naval procurement
IDENTIFIERS: TELCAM-2 Project

Low Cost Components is an acquisition research Low Cost Components is an acquisition research project addressing microelectronic devices. The goal is to improve reliability and reduce costs associated with components, especially microcircuits. Microcircuits are high-lighted because they are microcircuits are n.gr-lighted because they are subject to common problems with other component types plus the problems associated with a rapidly evolving technology. Guidance is provided for the selection and screening of microelectronic devices. The Project implements findings and recommendations from the TELCAM II project, reported in Naval Electronics Laboratory Center (NELC) TR 1957. (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-AD67 424 6/6

CORPS OF ENGINEERS WASHINGTON D C

Costs and Benefits of Aquatic Weed Control.

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APR 79 Gangstad.E. D. :

UNCLASSIFIED REPORT

DESCRIPTORS: •Weed control, •Cost analysis, Aquatic weeds, Aquatic plants, Benefits, Economic analysis, Chemicals, Control, Problem solving, Biology

In order to define the extent of the aquatic weed problem in terms of economic costs and benefits an attempt is made to develop order of magnitude estimates for specific damage caused by weeds in certain settings. These estimates would give a better perspective of the proplem and provide guidance to which method of control to use. The Corps of Engineers Aquatic Plant Control Program, initiated in 1899, was the first effort to control weeds by the U.S. Government.
Waterhyacinth, alligatorweed, Eurasian watermilfoil and hydrilla are the primary damaging aquatic weeds. Mechanically chemical and biological weed control methods are currently being used. weed control methods are currently being used.
Benefit-cost analysis is the term given to studies
by planners to assist in finding the best course o
action from an economic viewpoint. It differs from action from an economic viewpoint. It differs from routine decision-making by making use of quantitative evaluation, in monetary terms, of the goods and services expected (benefits) and the goods and services expended (costs). The benefit-cost ratio is the proportion of benefit to cost. For example, a benefit to cost ratio of 1.5:1.0 means that benefits are expected to be 150% of the cost. A B/C ratio of 1.0:1.0 means that this project will produce a rate of return equal to the benefit-cost evaluations. The higher the ratio the more

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A067 277 21/5 20/4

AIRESEARCH VFG CO OF ARIZONA PHOENIX

Alternate Subsonic Low-Cost Engine. (U)

DESCRIPTIVE TOTE: Final technical rept. 1 Apr 76-31 Dec 77, MAY 78 1689 Baerst.C. F. : Sandborn.J.

W:: REPT. NO. 76-212199(21) CONTRACT: F23615-76-C-2063

CONTRACT: F PROJ: 3012 TASK: 08

MONITOR: AFAPL TR-78-31

## UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: \*Turbojet engines. \*Afterburners.
\*Subsonic characteristics. Augmentation. Low
costs. Turbochargers. Production rate. Ramjet
engines. Cimbostors. Air flow. Thrust
augmentation. Static tests. Data acquisition. Test
edulopment IDENTIFIERS: WUAFAPL3020837 PE62203F

(U)

This document presents the final report on the research and development of a tunbolet derived from low-cost, high-production turbocharger components and low-cost, high-production turbocharger components and an augmenter based on a low-cost, ramget sydden-expansion burner. The engine, designated AiResearch ETJ131 Moel 1030, is an afterburning derivative of the AiResearch ETJ131 engine. Changes to the basic ETJ131 included placing the combustor parallel to the engine center lire, incorporating aerodynamic changes to accommodate the additional airflow required to achieve the thrust goal for the Model 1030, and adding an afterburner. (Author) (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A067 218 18/3

ENGINEERING DECISION ANALYSIS CO INC IRVINE CA

Cost and Feasibility Evaluation for the Excavation of Large Hemispherical Cavities in Rainier Mesa. (U)

DESCRIPTIVE NOTE: Topical rept. Jan-Oct 78,
OCT 78 206P Kipp, Thomas R.; Kennedy,
Robert P.;
REPT. NO. EDAC-: 77-041.1R
CONTRACT: DNA001-78-C-0281
PROJ: J45HAXS
TASK: 'X311'
SOMITOR: DNA SRIE 47231 AD-F300 488

MONITOR: DNA, SBIE 4723T, AD-E300 488

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Mining engineering, \*Excavation, \*Engineering geology, Nevada, Structura: geology, Cavities, Hemispheres, Joints, Cavities, Hemispheres, Joints,
Faults(Geology), Geologic formation, Cost
estimates, Feasibility Studies, Nuclear explosion
testing, Underground explosions, Rock, Bolts
IDENTIFIERS: Rainier Mesa, Nevada test site, PE62710H, WU01, WU02 (U)

In order to provide necessary facilities for the fielding of experiments in support of the underground nuclear testing program, there has been an increase in interest concerning the construction of large underground caverns in Rainier Mesa. As a result, a cost and feasibility program was commissioned to evaluate hemispherical cavities between 24.4 and 91.4 m (80 and 300 ft) in diameter. The prof. support designs for the cavities are based The rock support designs for the cavities are based upon the use of internally installed rockbolts for the smaller cavities and tendons installed from annular galleries for the larger chamber. The evaluation program included research into past evaluation program included research into past experience pertaining to the excavation and support of large underground caverns, assessment of the geological conditions which exist in Rainier Mesa, preliminary design of the cavities and their rock support system based upon the geological setting, development of mining plans for the excavation of the caverns, and estimation of the cost and manpower schedule to complete the construction of each size chamber based upon the preliminary design (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A067 194 5/9 17/2

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs.

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JAN 79 38P REPT. NO. 110-ORT-032-798-V3-AP-D

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. TTO-ORT-032-75-V3-AP-D. AD-a022 062. Appendix D to AD-DESCRIPTORS: •Military training, •Tactical communications, •Military personnel. •Communication equipment. •Life cycle costs, •Joint military activities, Logistics support. Cost analysis. Tactical communications. Cost estimates
Tables(Data). Design to cost. Cost effectiveness. Retirement(Personnel). Learning curves. Standards. Economics IDENTIFIERS: Military retirement. TRI TAC

(U) Project

The guidelines and methodology of Volume III outline the general problems of estimating total future acquistion and comership costs of joint tactical communications. This appendix provides a methodology, appropriate cost tables, and a set of sample calculations that will enable the cost analyst to calculate the economic cost to DOD of selected types of military personnel. The appendix also provides information for those equations personned in provides information for those equations presented in Volume III that require annual or hourly military personnel and training costs. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A066 729 12/1 14/1

CORNELL UNIV ITHACA N Y SCHOOL OF OPERATIONS RESEARCH AND INDUSTRIAL ENGINEERING

The Value of the Non-Atomic Game Arising from a Rate-Setting Application and Related Problems.

E: Technical rept.. DESCRIPTIVE NOTE:

APR 78 75P Raanan.Joseph; REPI. NO. TR-372 CONTRACT: NO0014-75-C-0678, NSF-MPS75-02024

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Game theory, \*Cost analysis, Allocations, Utilization, Telephone systems, Lyapunov functions IDENTIFIERS: Nonatomic games

The work is motivated by the following problem: bulk-service telephone lines were installed at Cornell University, to be used for long-distance calls. The charges paid to the telephone company are mostly fixed monthly charges and are not usager related. The problem is how to allocate these costs back to the users in a per call fashion, and how to do it in a way that is fair and efficient. The problem was solved by using the value of the associated non-atomic games. To be able to do this, the theory of non-atomic games had to be extended by weakening certain differentiability requirements. This is done here: in addition a number of results about full-range game are obtained. Next the problem of non-atomic linear production games is studied. A number of results about the cores of such games are obtained, extending and strengthening similar results about finite linear production games. In addition, some results about the value of such games are established, and relationships between the core and the value are derived for a spacial case.

(Author) (Author)

## UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A066 583 5/1 14/1 15/5

ARMY PROCUPEMENT RESEARCH OFFICE FORT LEE VA

The Application of Cuantity Discounts in Army Procurements.

DESCRIPTIVE NOTE: Final rept..
MAR 79 33P Zamel. MAR 79 Steven : Zabel. Wayne V. : Gajdalo.

REPT. NO. APRO-706-1/180-254

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Army procurement. Quantity. Acquisition. Costs. Reduction. Savings. Inventory
IDENTIFIERS: Discounted costs. Quantity (U) (U)

The Department of Defense (DCD) has directed the use of basic Economic Order Quantity (EDG) principles in the acquisition of secondary items. One assumption of the ECQ model is that there is no control over acquisition price: Tyet, it has been established that the unit price of an item is not always independent of the quantity procured. The approach taken in this study included a review of the Quantity Discount (GD) program as implemented by the Air Force, and the development of a total variable cost equation to evaluate offers in response to a QD solicitation. A OD program in the Army is expected to result in reductions in both acquisition cost and long run administrative morkload. A proposed OD program has been developed and it is recommended that a test be conducted at one or rore Materiel Readiness (Commands to determing the degree of success a full QD program can be expected to accomplish. The Department of Defense (DOD) has directed (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A066 557 5/3 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Discounting Theory and its Application in the Public Sector. (U)

DESCRIPTIVE NOTE: E: Master's thesis 52P Bonna.Ral Bonna.Ralph Anthony: DEC 73

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Costs. \*Investments. Public administration, Federal budgets, Rates, United States government, Policies, Benefits, Time dependence, Inflation(Economics), Economic analysis, Theory, Theses

IDENTIFIERS: \*Discounting theory, Social discount (U) (U) rate

The purpose of this paper is to review the current policy estbalished by the Office of Management and Budget (OMB) concerning the use of discounting in evaluating time-distributed costs and benefits of proposed public investments. Although a widely accepted concept in the private sector, the use of discounting in the public sector has been less clearly defined and a subject of considerable debate. The mechanics of discounting and the importance of the discount rate in investment decisions are The mechanics of discounting and the importance of the discount rate in investment decisions are discussed. A brief history of discounting in the public sector is presented including highlights of the Congressional Hearings in 1969 from which the current policy resulted. Several issues relating to the DMB policy such as the question of social versus economic goals, the effect of budget constraints, and the potential misapplication or misuse of the discounting methodology are addressed. misuse of the discounting methodology are addressed. Particular attention is given to the problem of inflation and its impact on the established rate. (Author) (U)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A066 518 5/3 12/1

CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP

A Parametric Linear Complementarity Technique for the Computation of Equilibrium Prices in a Single Commodity Spairal Model. (11)

DESCRIPTIVE NOTE: Management schence research rept..
DEC 75 45P Pang.Jong-Shi :Lee.Patrick DEC 78

REPT. NO. MSRR-427 CONTRACT: NGC014-75-C-0621

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Econometrics. \*Commodities. \*Price index. \*Linear programming. Algorithms.
Equilibrium(General). Quadratic programming.
Matrices(Matnematics). Networks. Computations
DENTIFIERS: WUNR047048 IDENTIFIERS:

This paper presents a parametric linear complementarity technique for the computation of equilibrium prices in a single commodity spatial model. We first reformulate the model as a linear complementarity problem and then apply the parametric principal prvoting algorithm for its solution. This reformulation leads to the study of an arcmarc weighted adjacency matrix associated with a simple digraph having weights on the nodes. Several basic properties of such a matrix are derived. Using these properties, we show how the parametric principal pivoting algorithm can be greatly simplified in this application. Finally, we report some computational experience. (Author) This paper presents a parametric linear (111)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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ANALYTIC SCIENCES CORP READING MASS

Avionics Standardization Potential

DESCRIPTIVE NOTE: Final rept. 16 May 77-16 May 78, 9P Gates, Robert K. ; Shipp.

DESCRIPTIVE NUIE: rinaire,
ADV 78 89P Gai
Robert F.;
REPT. NO. TASC-TR-1059-3
CONTRACT: F33615-77-C-1167

Fr 31: 2003 TASK: 02 . MONITOR: AFAL TR-78-168

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Avionics. \*Standardization. \*Cost DESCRIPTIONS: "AVION'CS, "Standardization, "Cost analysis, Life cycle costs, Computer programs, Computer program documentation, Potential theory, Data reduction, Systems analysis IDENTIFIERS: WUAFAL20030244, PE62204F (U) (U)

The bbjective of the Avionics Standardization Potential Analysis program is to develop a general methodology for evaluating the benefits accruing from the use of standard equipment across future USAF avionics systems. The methodology has been developed using navigation avionics, as being representative of avionics in general, in a study of standardization potential across navigation systems (SPANS). The methodology covers the process of establishing future avionics systems requirements through mission analysis, identification of available equipment for the design of mission-responsive avionics suites, evaluation of future quantitative demands for avionics equipment, synthesis of mission-capable avionics systems, collection of relevant cost and reliability data and evaluation of standardization options using a computer-based Standardization Evaluation Program (STEP). (U

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A055 864 14/1

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ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS

Sources and Nature of Cost Analysis Data Base Reference Manual.

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DESCRIPTIVE NOTE: Interim rept..
FEB 79 153P Pogers.Thomas R.:
REPT. NO. USAAVRADCCM-TR-79-9 DESCRIPTIVE NOTE:

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A048 322. DESCRIPTORS: \*Cost analysis. \*Data bases. \*Cost estimates. Data acquisition. Skills. Sources. Army planning. Standardization. Data storage systems. Military requirements

(11)

Citing specific examples, the report examines, evaluates, analyzes and portrays the sources and nature of the Cose Analysis data base emphasizing important interrelationships between process igathering, normalization, evaluation), professional skill requirements, the planning of future report revisions, and the development of new data sources. For analysis, the main body of the report employs an expanded 13-step format. Entries on the format were obtained from personal interviews. The report is organized to permit future changes and to facilitate cross-referencing. (Author) (U)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 14/4

AD-A065 643 14/1

MARTIN MARIETTA AEROSPACE ORLANDO FLA

Reliability Trade-Offs for Unit Production

DESCRIPTIVE NOTE: Final technical rept. Jun 77-May 78.

JAN 79 72F Butler, Thomas W. : JAN 79 72F Bu' CONTRACT: F30602-77-C-0118

PROJ: 2338 TASK: 02

MONITOR: RADC TR-78-280

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost effectiveness. \*Trade Off analyses. \* liability, Costs. Production. Models. .s. Standardization. Vendors. Select J., Spare parts, Control. Assembly IDENTIFIERS: PE62702F, MURADC23380211

Martin Marietta Corporation Conducted a 12 month study program to develop models for the evaluation of trade-offs in the requirement to evaluation of trade-offs in the requirement to execute specific reliability program elaments, the resultant schieved reliability and the impact Upon unit production cost. The program elements considered include: Parts standardization, considered increase. Parts standardization, selection and control; vendor selection, qualification and surveillance; and screening and test programs at piece part and various assembly levels. (Author)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A065 570 14.1 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

The Production Function and Airframe Cost Estimation.

DESCRIPTIVE NOTE: Master's thesis. DEC 78 72P Long.John A. : REPT. NO. AFIT/GOR/SM/78D-8

UNCLASSIFIED REPORT

DESCRIPTORS: \*Airframes. \*Cost models. Cost Estimates. Least squares method. Nonlinear systems. Data bases. Models. Theses

In recent years, men and governments have become keenly aware of the huge capital outlavs necessary in the acquiring of new weapons systems. Increased burden on limited capital has required more complete and careful planning. This planning has led to the need for accurate and timely cost predictions of new systems. Historically, the variables affecting the future cost of airCraft airframes have been proven to be airframe reight and aircraft speed. These are often Combined with learning hypothesis to form an airframe cost model. In this paper, the production function of microeconomics is combined with weight speed, and learning to form a nonlinear cost estimation model. Nonlinear least squares regression analysis was used in evaluating this model. Although the results are inconclusive, based on the data used, weight and speed combined with learning still appear to be the best predictors of aircraft airframe cost. (Author) In recent years, men and governments have become ( U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A065 552

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ARMY MATERIALS AND MECHANICS RESEARCH CENTER WATERIGAN MASS

Lox-Cost Solvents for the Preparation of Polyphenylquinoxalines.

(U)

(U)

DESCRIPTIVE NOTE: TE: Final rept., 129 Wentwo JAN 79 Wentworth. Stanley E. : £≱rsen,Deborah J.; REPT. NO. AVMRC-TR-79-3 PROJ: 1£162105AH84 1L162105AH84

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Quinoxalines.
\*Synthesis(Chemistry), Phenyl radicals.
Solvents, Costs, Monomers, Polymers, Phenols.
Ingreat stablity, Oxidation reduction reactions. Molecular meight IDENTIFIENS: ASH84, PE62185A

Recent Studies have shown there to be great potential for reducing the cost of polypherylquinoxalines by significantly lowering the cost of the requisite monomers. Such reductions have made previously insignificant solvent costs an important factor in the overall resin cost.

Accordingly, a polypherylquinoxaline was prepared in solvents where relatively expensive isomerically pure m-cresol was replaced with technical phenol or cresol. A series of comparisons was made between these polymers and a polypherylquinoxaline prepared cress. A series of comparisons was made between these polymers and a polyphenylquinoxaline prerared in the conventional solvent. It was conclusively shown that each of the polymers was of comparable quality in terms of thermal oxidative stability and molecular weight. Thus, less costly solvents can be used for the preparation of polyphenylquinoxalines, thereby further reducing the cost of these superior resins. (Author)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20207

AD-A065 546 5/1

LOGISTICS MANAGEMENT INST MASHINGTON D C

Applial Stration of Cost Accounting Standards.

(0)

DESCRIPTIVE NOTE: Final rept..

JAN 79 359 White-Richard P. :Weinstein. JAN 79 359 WR Robert M.: CONTRACT: M94903-77-C-0370

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Standards. \*Costs. \*Accounting. Management. Department of Defense. Decision making. Government procurement

(U)

This report examines the process for administering CAS requirements within DoD and concludes that extensive revision of procedures is not necessary. The report states that many administrative contracting officers (ACOs) have difficulty executing the CAS requirements: that, as a group. ACOs are inadequately prepared to make the necessary decisions: that CAS administration is done more intensively when the ACO is located at the contractor's plant; and that prime contractors rarely administer the CAS provisions in their subcontracts. The report concludes that DoD could make more effective use of people and time by improving the capabilities of ACOs and recommends actions to give those administering CAS the knowledge and skills needed to make required decisions. It recommends creation of a single office in DoD to be responsible for all DoD CAS interpretations and guidance, recommends other specific tasks and procedures for that office and recommends elimination of CAS specialists at all organizational levels between ACO and the CAS Office. It also recommends that DoD consider This report examines the process for administering organizational levels between ACD and the CAS office. It also recommends that DOD consider proposing changes to the CAS Board that would exempt negotiated defense contracts based on adequate price competition and that would restrict application of CAS to major contractors with on-site ACDs and subcontractors who also hold CAS-covered prime contracts. (Author) { U }

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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DOUGLAS AIRCRAFT CO LONG BEACH CALIF

Feasibility and Cost Effectiveness of Airborne Tire Pressure Indicating Systems.

OCT 78 125P Shites,R. L.;
CONTRACT: DOT-FA77WA-COTO
WCNITOR: FAA/RD 78-134-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft tires, \*Pressure gages, \*Aviation safety, Warning systems, Airborne, Detection, Pressure transduce: .. Safety equipment, Measuring instruments, Display systems, Cost effectiveness, Feasibility studies
IDENTIFIERS: \*Airborne Tire pressure indicating (U) (U)

The Cost-effectiveness and feasibility of airborne tire pressure indicating systems are evaluated for potential application to modern air parrier transports having 6, 19, and 18 wheels. Such wheel mounted pressure readout gauges and devices and cockoit tire pressure warning indicators are studied. Typical wheel mounted readout devices and eleven conceptual cockpit indicating systems are discussed. Typical wheel mounted readout devices and elevin conceptual cockpit indicating systems are discussed. Information on accuracy, temberature commensation requiresents, weight, installation cost system cost, and system maintenance cost is provided. Each cockpit system is evaluated against important design criteria which require that cockpit systems cause no false warnings and that each system be capable of being tested periodically to determine its ability to detect a low pressure tire when it occurs. A study of tire failures is made for 1973-1976 identifying rate of tire failures and aircraft damage costs resulting from time failures. The study presents data that shows that 65% of airframe damage cost is related to underinflation — induced or related tire failures which may be avoided by a properly designed time pressure indicating system. Average airframe damage cost per departure for each study aircraft, based on actual airline data, is presented with comments on delay and cancellation costs. comments on delay and cancellation costs.

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONCT

AD-A055 145 9/2 14/1

FEDERAL COBOL COMPILER TESTING SERVICE WASHINGTON D C

Handbook For Estimating Conversion Costs of Large Business Programs.

DESCRIPTIVE NOTE: Final rept.. FEB 79 47P Cliver.Poul: FEB 79 47P ( REPT. NO. FCCTS/TR-79/01

# UNCLASSIFIED REPORT

Available from National Technical Information Service, Springfield, VA. 22161, PCS7.50. MF\$7.50. DESCRIPTIONS: \*Data storage systems. \*Cost estimates. Handbooks. Data management. Computer programs. High level languages. Conversion. Resources. DESCHIPTORS: Data processing (4)

Inis handbook is intended to assist a manager in making estimates of conversion costs for large. Dusiness/administrative data processing systems. It assumes that source programs are in a higher-level language (probably CCSOL), but most of the procedures are applicable to any conversion. The 'production' phase would be the one most affected by deviations from these assumptions. The user of the handbook will note that many cost components are not quantified. This was done in those cases where a generalized rule of thumb, out of context, is simply not available. Thus, the user will have to sumply his own figures. In all cases, estimates given are not to be taken as universal truths. A user of this handbook should not feel constrained by these estimates if his knowledge of his specific situation suggests different estimates. (Author) Suggests different estimates. (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO? 1/2

AD-A064 996

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Cost-Benifit Analysis of the Proposed Consolidation of All Navy and Marine A6-E Fleet Replacement Training Squadrons.

DESCRIPTIVE NOTE: Master's thesis, 147P DEC 78 Kelley Kevin Philip ;

UNCLASSIFIED REPORT

DESCRIP JRS: \*Flight training, \*Naval training. DESCRIP JRS; \*Filght training, \*Naval training, \*Marine Corps training, \*Cost effectiver.ss. Naval air stations, Attack aircraft, Feasibility studies, Cost estimates, Resource management. Naval planding, Flight crews, Proficiency, Manpower utilization, Squadrons, Theses IDENYIFIERS: A~6 aircraft, A-6E aircraft

Th's thesis contains a Cost-Benefit Analysis conducted to determine the advisability and the economic feasibility of consolidating all Navy and Mar'ne Corps A-6E flact Replacement.

Training Squadrons. A detailed examination is mady of the prevailing and projected conditions at each of the prevailing and projected conditions at each of the current training sites. The accumulated data unulyzed regarding its effect on the training environment support under both present circumstances and the proposed conditions of consolidation. A range of feasible alternatives is then developed and cost estimates are presented for those possibilities. It is shown that consolidation is a realistic option, with Certain logistical constraints, which will produce specific benefits in the quality of the resultant aircrews and possible fiscal savings to the Department of the Navy as well. The final recommendation involves adoption of the proposal according to the guidelines of one of two realistic alternatives developed by the research. (Author) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MOT 5/3

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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Systems Approach to Life-Cycle Design of Pavements. Volume III. LIFE2 Program

(0)

DESCRIPTIVE NOTE: Final rept..
JAN 79 453P Lindow.Edward S.:
REPT. NO. CERL-TR-M-253-VOL-3
PROJ: 4.763734DT08 4.763734DT08

UNCLASSIFIED REPORT

Availability: Document partially illogible. SUPPLEMENTARY NOTE: See also Volume 1. AD-AObi

DESCRIPTORS: \*Favements. \*Life cycle costs DESCRIPTORS: \*Favements. \*Life cycle costs.
\*Computer programs. \*Systems approach. Civil
engineering, Runways, Roads, Subroutines.
Materials laboratories, Maintenance management.
Statistical data. Construction materials. Road
building equipment
IDEN.IFIERS: LIFE2 Automated system. PE63734A.
ASTOR WIGHT.

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This report is the third volume of a three-volume report which documents an automated system (LIFE2) for analyzing pavement designs and maintenance and repair strategies based on life-cycle costs. LIFE2 models existing Corps of Engineers Criteri; for designing rigid and flexible pavements for airfields, roads, and street. The program includes analytical procedures for evaluating eart work, drainage, and frost protection includes analytical procedures for evaluating eart work, drainage, and frost protection requirements in addition to maintrnance costs. The resulting combinations of design schemes and maintenance strategies are ranked by total cost over the design life of the ravement, volume I is the LIFE2 Users Manual, Volume II is the LIFE2 System Documentation, and Volume III is the LIFE2 Program Listing, (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A064 693 21/5 11/6

GENERAL ELECTRIC CO CINCINNATI OHIO AIRCRAFT ENGINE

Ti/Al Design/Cost Trade-Off Analysis.

OTE: Final rept. 12 Sep 77-12 Man 78. DESCRIPTIVE NOTE: OCT 78

REPT. NO. R78AEG534 CONTRACT: F33615-77-C-2066 PROJ: 3066 TASK: 12

MONITOR: AFAPL TR-78-74

UNCLASSIFIED REPORT

DESCRIPTORS: \*Titanium alloys, \*Aluminum alloys, \*Turbojet engines, Superalloys, Nickel alloys, Costs, Weight reduction. Cost effectiveness. Trade off analyses, Engine octonents. Intermetallic compounds. Compressors, Axial flow compressors, Gas turbine blades, Ducts, Powder metallings.

metallurgy
IDENTIFIERS: Liners, Nonpyrophoric, PE62203F,
WUAFAP130561248 (U)

IAC ACCESSION NUMBER: MCIC-107174
IAC DOCUMENT TYPE: MCIC-HARD COPY--AC DOCUMENT TYPE: MCIC -HARD COPY-A new class of alloys based on intermetallic compounds in the titanium aluminum system has shown the potential for application in the temperature range of 1000-1700 F. This program was undertaken to investigate the type of application and payoff that would result. Two titanium aluminum alloys were looked at, the Ti3Al (alpha iwo) and Ti4l (gama). The use of Ti3Al was restricted to static components, whereas Ti4l was limited to dynamic components. The dynamic application selected was a compressor and turbine blade. The static application was 3 ixing duct and exhaust duct liner. Cost of the Delicated titanium aluminides components was compared with the current exhaust duct liner. Cost of the selected titanium aluminides components was compared with the current cost of the nickel-base-superalloy components. The results show a cost increase for all the components. A detailed structural analysis of the four components shows the substitution would lead to longer life components.

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DDC REPORT BIBLIOGRIPHY SEARCH CONTROL NO. ZOWOT

AD-A064 466 21/4

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION POLICY

A Proposed Aviation Energy Conservation Program for the National Aviation System. Volume II. The Intermediate and Long Run, 1979-1990. (U)

DESCRIPTIVE NOTE: Final rept. NOV 78 83P REPT. NO. FAA-AVP-78-12-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A064 DESCRIPTORS: \*Energy conservation. \*Aviation fuels. \*Cost analysis. Savings. Efficiency. Policies. Fuel consumption. Commercial aviation. Inventory control. Computer programs. Performance(Engineering)
IDENTIFIERS: \*Aviation Energy Conservation

(U)

This study presents an overview of potential options for 'mproving aviation energy efficiency. Included in the proposed program are alternatives that could be pursued by the Federal Government as well as options that could be adopted by the various segments of the aviation industry. The report is in four volumes: 1 - The Short Run. 1977-1978: 2 - The Intermediate and Long Run. 1979-1990: 3 - The Proposed Aviation Energy Conservation Program: and Summary - Overview Conservation Program: and Summary - Dverview of preceding technical volumes. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A064 454 1/5

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FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION POLICY

Financing the Airport and Airway System: Cost Allocation and Recovery. (11)

DESCRIPTIVE NOTE: Final draft rept., NOV 78 77P Rodgers.John NOV 78 77P REPT. NO. 5 A-AVP-78-14 Rodgers.John M. :

# UNCLASSIFIED REPORT

DESCRIPTOPS: \*Airports, \*Finance. \*Civil aviation. \*Taxes, Costs, Allocations, Utilization. Public administration, Recovery, Management planning and control IDENTIFIERS: LPN-FAA-AVP-210

Development and maintenance of the Federal airport and airway system are authorized by the Airport and Airway Development Act of 1970 (as amended through 1976). Elements of existing legislation will expire in 1980. The purpose of this report is to analyze dirport and airway system finance as a mide for developing post-1980 development and financial programs. Estimates are provided of 1978 and 1987 airport and airway system costs. System costs are allocated to users under two alternative procedures providing a range of cost responsibility. Aviation tax revenues are projected for 1978 and 1987 and are compared with allocated user costs. Several changes in aviation user taxes are evaluated as methods of aligning future airport and airway tax contributions with cost responsibility. (Author) Development and maintenance of the Federal (U)

## UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A064 442 5/1 12/1 5/3

DECISIONS AND DESIGNS INC MOLEAN VA

Applications of Decision Analysis to the U. Army Affordability Study. (U)

DESCRIPTIVE NOTE: Technical rept.. DEC 78 95P Suede.Dennis M. :Donn Michael L. :Feuerwercer.Phillip H. :Raglard. Suede.Dennis M. :Donnell. Janice E. : REPT. NO. TR-78-10-7 CONTRACT: N0C014-78-C-01C0, ARPA Order-3469

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Advanced Decision DESCRIPTIONS: \*Decision making. \*Cost analysis.

\*Army planning. Resource management. Costs.

Benefits. Allocations. Military requirements.

Missions. Value. Ranking. Utilization

IDENTIFIERS: Affordability. Decision analysis.

Priorities. Utility analysis. Multiattribute

utility analysis (B)

(U) This report describes several applications of decision analysis to the Army's Affordability Study. These applications are focused on the allocation of resources to support the requirements. allocation of resources to support the requirements. Concepts, plans and programs of the Army. Decision analysis is a Quantitative procedure for systematic evaluation of the alternative available to a decision maker. Decision-analytic techniques are used to structure a decision problem into plearly defined components, so that all options, outcomes, values, and probabilities are depicted. Decision analysis is first applied in cost-benefit analysis to rank the Army Program Development Increment Packages and Program Analysis Resource Review issues. The cost-benefit process involves Quantifying the relative Senefits and costs of each program. Since the purpose of prioritization is to determine the allocation of money to a discrete number of programs, the quantification of benefit is done according to an Army mission value system. not done according to an Army mission value system. not according to a monetary value system. Once the benefits nave been cuantified, the programs can be prioritized from the most cost-beneficial (benefit per dollar) to least. (U)

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DDC REPORT RIBLIOGRAPHY SEARCH CONTROL NO. 70MO7

AD-A064 333 14/1

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RAND CORP SANTA MONICA CALIF

An Appraisal of Models Used in Life Cycle Cost Estimation for USAF Aircraft Systems.

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DESCRIPTIVE NOTE: Interim rept.,
OCT 78 128P Marks, Kenneth E. : Massey,
H. Garrison ; Bradley, Brent D. ;
REPT. NO. RAND/R-2287-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original Contains color plates: All DDC reproductions will be in black and white, DESCRIPTORS: \*Cost models, \*Life cycle costs. All DUC reproductions will be in account of the DESCRIPTORS: \*Cost models, \*Life cycle costs, \*Military aircraft, Cost analysis, Cost astimates, Life expectancy, Allocations, Inade off analyses, Decision making, Acquisition, Maintainability, Reliability, Utilization

Although life cycle analysis is \*idely used as a management tool, considerable uncertainty still exists about its effectiveness with respect to management tool, "Ansiderable uncertainty still exists about its effectiveness with respect to economic tradeoffs, funding decisions, and resource allocations. This report evaluates some of the most widely used life cycle cost (LCC) models: AFR 173-10 models (BACE AND CACE); the Logistics Support Cost Model; the Logistics Composite model; the MOD-METRIC model; AFM 26-3 Manpower Standards; Air Force Logistics Command Depot Maintenance Cost Equations; the DAPCA model; and the PRICE model. The models are rated within a framework incorporating a set of life cycle cost elements and a sat of cost driving factors. Colon-coded illustrations summarize the results. The models are shown to have many shortcomings that limit their usefulness for life cycle analyses in which estimates of absolute, incremental cost ...e required. Specific areas are identified where driving factor/cost element combinations are not adequately addressed. (Author) (U) (Author)

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DDC REPORT BIBL OGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A064 223

5/3 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

9/2

An Approach to Software Life Cycle Cost Modeling.

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DESCRIPTIVE NOTE: Master s theses. DEC 78 76P Walker.william H. . IV: REPT. NO. AFIT/GCS/EE/78-21

UNCLASSIFIED REPORT

\*Life Cycle Costs. Air Force Procurement, Computer applications, Computer programming, Algorithms, Mathematical models, Air Force planning. Theses

(11)

This report describes the development of a software life cycle costing model. The model reduces life cycle cost to a function of three parameters which are in turn functions of a number of factors that are in turn functions of a number of factors that describe the software sistem. A step-by-step algorithm is presented for building the model from raw data. The model is exercised as an example with a small amount of data. Sensitivity analysis is used to help select the most salient facors. Brief descriptions of management applications and recommendations are presented. Appendices describe sample ata and two computer programs used to develop the model. (Author)

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AD-A064 223

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A064 115 15/7 14/1

ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND DOVER NO SYSTEMS EVALUATION OFFICE

Preliminary Criteria for Optimizing the Cost Effectiveness of System Improvements to Enhance Survivability.

DESCRIPTIVE NOTE: Special publication. NOV 78 16P Moore,Richard REPT. NO. ARSED-SP-7600: Moore, Richard L. :

WONITOR: GIDEP, SBIE E135-2528.AD-E400 202

UNCLASSIFIED REPORT

DESCRIPTORS: \*Lanchester equations. \*Tactical analyses. \*Cost effectiveness.
Survival(General). Weapon system effectiveness.
Figure of merit, Weapon system effectiveness. Kill probabilities, Economic analysis. Optimization. Life cycles IDENTIFIERS: Lanchester square law

The Lanchester law of combat has been used used to develop a figure of merit for survivability. The economic principle of marginal utility has been applied to demonstrate a proposed method of evaluating the cost-effectiveness of various possible survivability enhancing improvements. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A063 928 9/1 17/4

NORTHROP CORP DES PLAINES IL DEFENSE SYSTEMS DIV

I/J Band Low-Cost Crossed-Field

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DESCRIPTIVE NOTE: Interim technical nept. 28 Sep 77-8

May 78.
DEC 7S 29P Mo.
REPT. NO. 094-008686
CONTRACT: DAAB07-77-C-2642

MONITOR: DELET 1R-77-2642-2

UNCLASSIFIED REPORT

DESCRIPTORS: \*Crossed field devices. \*Micro\*ave DESCRIPTURS: \*Crossed field devices. \*Military amplifiers. \*Electron tubes. Low costs. Electronic warfare. E band. F band. J band. I band. Substrates. Gain. Injection IDENTIFIERS: Meander lines. Injected beam crossed field amplifiers. Laser cutting

(U)

Moats.Robert R. :

This program is directed toward development of an This program is directed toward development of an I/J band, linear format, injected-beam crossed-field amplifier (IBCFA) for electronic warfare. The IBCFA should be capable of power output of 1000 W peak, 200 W average, between 8.5 and 17 GHz with 20 dB gain. A laser-cut shaped-substrate meander line is used. Performance in an substrate meander I.ne is used. Performance in an E/F band IBCFA is evaluated, for which the objective performance in the 2-4 GHz band is 3.0 kW peak paker output. 1.0 kW average power output, also with 20 dB gain. In addition, a quinfor I/J band is to 5e designed and evaluated. For E/F band, a cold-test model was built using For E/F band, a cold-test model was built using the same technology as contemplated for operating tubes. Values of delay ratio, coupling impedance, and attenuation were substantially as expected. An E/F-band operating CFA using the snaped-substrate meander line, and other parts common with a standard E/F-band CFA design, was built and tested. Performance was comparable with a typical CFA of standard design, slightly lower in efficiency at mid hand and approximately the same efficiency at mid band and approximately the same over the remaining part of the 2-4 GHz band. An I/d-band cold-test model was built, and measurements of delay ratio, coupling impedance, and attenuation were made.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A063 519

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DECISIONS AND DESTIGNS INC MCLEAN VA

Cost-Benefit Analysis Appried to the Program Objectives Memorandum (PDM).

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DESCRIPTIVE NOTE: Technical rept., NOV 78 82P Buede,Denn Buede, Dennis M. : Ragland,

NOV 78 82P Buede, Dennis M. : Ray Janice E. ;
REPT. NO. TR-78-9-72
CONTRACT: N00014-78-C-0100, ARPA Order-3052

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost effectiveness, \*Planning programming budgeting, Marine Corps planning, Army planning, Decision making, Methodology, Army

budgets IDENTIFIERS: Zero base budgeting

This report provides a complete discussion of a cost-benefit analysis for the preparation of the Program Objectives Memorandum (POM). This cost-benefit analysis incorporates elements from the fields of economics, organizational theory, psychology, and computer science. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLI GRAPHY SEARCH CONTROL NO. ZOMO?

AD-A063 529

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GENERAL RESEARCH CORP VOLEAN VA

Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for PCT-80.

(U)

DESCRIPTIVE NOTE: Final rept. 1 Apr=30 Aug 78.

OCT 78 46P Goudreau.Kenneth A.:
Schmitz.Edward J. IMcM=1te.Peter B.:Ross.
Sue G.:Sica.Geraldine:
REPT. NO. CF=228
CONTRACT: NJC014-78-C-0435

UNCLASSIFIED REPORT

DESCRIPTORS: \*Manpower utilization. \*Naval budgets. \*Cost analysis. Models. Linear programming. Data bases. Tables(Data). Naval personnel. Enlisted personnel. Naval planning

This report documents the technical work General

Research Corporation performed to assist CNO OP-901M in preparing the FY-80 Navy Manpower Program Objectives Memorandum (PDM-80). Recommendations to improve the accuracy of the Enlisted Projection Model used by OP-901W in the PDM process are included. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A063 514 18/6 15/6

ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND ABERDEEN PROVING GROUND MD BALLISTICS RESEARCH LAB

The Nuclear Hardening of Army Tactical Systems: A Trade-Off Methodology. (U)

DESCRIPTIVE NOTE: Final rept., NOV 78 25F Schwenk,R. Michael ;Klopcic, J. Terrence;
RPT. NO. ARBRL-MR-02875
PROJ: '1162120AH25
MONITOR: SBIE AD-E430 149

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Radiation hardening. Army operations.
Tactical weapons, Nuclear warfare. Trade off
analyses, Cost effectiveness, Army equipment. Cost
analysis, Life cycle costs, Tactical warfare.
Survival(General)

IDENTIFIERS: COEA(Cost and Operational
Effectiveness Analysis). ASH25, PE62120A

Presented is a trade-off methodology for
quantitatively optimizing the nuclear hardening of
Army tactical systems based on constitutions.

Presented is a trade-off methodology for quantitatively optimizing the nuclear hardening of Army tactical systems based on operational impact and life-cycle cost. Included is a proposed set of procedures and analyses which provide a systematic approach for ensuring nuclear hardening predicated upon mission-related survivability criteria and relative military worth. The methodology closely parallels current CDEA designs and, as such, is applicable as a comprehensive, readily-adaptable, Army-wide program. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A063 382 5/1 17/2 14/1

DEFENSE CONVENICATIONS ENGINEERING CENTER RESTON VA

An Overview of the Cost Benefit Analyses for the Automated Technical Control (ATEC). (U)

DESCRIPTIVE NOTE: Technical note.

NOV 78 102P Stroud.Vincent D.:

REPT. NOW DEEC-IN-7-78

WONITOR: SBIE AD-E100 151

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Control systems.
\*Automation. Benefits. Commercial communications.
Telephone systems. Logistics support. Maintenance.
Monitoring. Manpower. Life cycle costs. Cost
effectiveness (U)
IDENTIFIERS: ATEC(Automated Technical
Control). Cost benefit analysis (U)

This report provides an overview of the ATEC cost/benefit analyses conducted by the government and industry and some of the automation work accomplished by commercial telephone companies. It consolidates the results of many of the plant and studies pertaining to the ATEC cost/benefit analyses and provides an insight into the scope and depth of what has been accomplished. As a basis for comparison, information on some of the automation work accomplished by GTE and the Bell System including the indications and evidence of the cost/benefits they experienced is provided in the report. Recommendations are made for the conduct of future cost/benefit analyses for the ATEC program.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A062 947 1/3 9/2

MEARNEY (A T) INC CHICAGO IL CAYMODD-SCHILLER DIV

The Mission Trade-Off Methodology (MTCM) Model: User's Manual. (U)

DESCRIPTIVE NOTE: Final rept. Mar 74-Feb 75.
OCT 78 150P Strauss,W. J.; Bailey,N.
D.; Kasper,M. W.;
CONTRACT: F33615-74-C-5141
MONITOR: JTCG/AS 76-S-002

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. JTCG/AS-76-S-001, AD-A049 318.
DESCRIPTORS: \*Trade off analyses. \*Cost effectiveness. \*Aircraft. \*Conputer programs.
Surviva!(General). Modification, Weapon system effectiveness. Probability, Missions. Input output (U)

processing. Instruction manuals. User needs. FORTRAN, Flow charting IDENTIFIERS: MTOM computer programs. User manuals. FORTRAN 4 programming language, CDC 6600 computers. LPN-JTCG/AS-SA-6-02

The MTDM programs provide a means for evaluating the relative cost-effectiveness of proposed aircraft modifications for the purpose of enhancing survivability. There are two programs: MTD/E (mission trad-off/effectiveness) model and MTD/C (mission trade-off/cost) model. This report is designed to enable the user to prepare the inputs for the MTDM programs. The report explicitly explains formats, outputs, the relationships of inputs to outputs, and the limitations and restrictions on the inputs. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AC-A062 864 21/5

WILLIAMS RESEARCH CORP WALLED LAKE MICH

Low Cost Expendable Engine.

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DESCRIPTIVE NOTE: Final technical rept. Apr 76-Mar 78. MAR 78 120P Huben.C. A. : Metsker. ...

CONTRACT: F33615-76-C-2123

PROJ: 3066 TASK: 15

MONITOR: AFAFL 1R-78-33

UNCLASSIFIED REPORT

DESCRIPTORS: \*Turbojet engines. \*Expendable. \*Gas turbines. Low costs. Axial flow compresso s. Flight simulation. Manufacturing. Shects. Engine components. Test facilities. Test methods IDENTIFIERS: PE62203F, #UAFAPL30661522

A low Cost expendable turbojet engine in the 200 A low Cost expendable turbojet engine in the 200 pound thrust class was fabricated and tested. The design, manufacturing, and inspection concepts of the program resulted in the achievement of a projected engine cost of \$2883 each in lots of '000 enaines in terms of 1975 economics. Problems solved during the compressor rig testing and engine tune-up testing are discussed. The results of the engine demonstration testing both at sea level static conditions and under a simulated Mn 0.7 condition are presented. (Author) (U)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO?

CONSTRUCTION ENGINEEPING RESEARCH LAB (ARMY) CHAMPAIGN

Design of Solar Heating and Cooling (u) Systems.

DESCRIPTIVE NOTE: Final rept., OCT 78 57° Jonaich, David M. ;Leverenz. Donald James ;Hittle,Douglas C. ;Walton. George N.: REPT. NO. CERL-TR-E-139 PROJ: 4A762731AT41 TASK: T6

# UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: \*Solar heating, \*Cooling, \*Solar energy, \*Cost analysis, \*Computerized simulation, Computer aided design, Solar collectors, Buildings DENTIFIERS: BLAST(Building Loads Analysis and Systems Thermodynamics) Program, WU021, AST41, PE62731A (u)

This report presents a method for making an energy and an economic cost/benefit analysis of solar energy systems. A graphical method is presented for evaluating the performance of solar domestic hot water systems, solar heating systems, and solar heating and cooling systems. Methods for selecting the optimum collector area based on benefit-to-cost the optimum collector area based on benefit-to-cost ratio and for systemtically making detailed design calculations using the Building Loads Analysis and System Thermodynamics (BLAST) computer simulation program are also presented. Practical considerations for solar system designs are discussed. The methods presented provide the required accuracy for both initial evaluations and final design calculations. Examples are provided throughout the text to aid in using the methods described. (Author) (U)

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RCA SOLIT STATE DIV SOVERVILLE NU

Development Report for High-Reliability. Low-Cost Integrated Circuits.

(1)

DESCRIPTIVE NOTE: Rept. for 3 Nov 77-3 Sep 78. SEP 78 39P CONTRACT: N00039-76-C-0240 PROJ: #54586 TASK: XF54586002

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Integrated circuits. Chips(Electronics). Wafers. Silicon nitrides. Titanium. Platinum. Gold. Low costs. High reliability. Hermetic seals. Aluminum. Photomasking
IDENTIFIERS: Plastic packaging, Metallization,
Automated assembly, PE62762N

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Wafer fabrication has been completed. The control Mafer fabrication has been completed. The control units (aluminum metallized DIC and DIP devices and trimetal devices in open DIC packages' are 90-percent complete. Thermal-shock testing of HRLC (high-reliability, low-costi product has defined a beam-tape design problem which has necessitated the redesign of the beam tapes on all types. Life-test matrices have been run on CD4012 and CA741 to gain a preliminary insight into the failure modes to be expected in Phase III. (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT 12/1

AD-A062 471 9/2

CALIFORNIA UNIV BERKELLY OPERATIONS RESEARCH CENTER

Scheduling Tasks with Exponential Service Times on Nonidentical Processors to Minimize Various Cost Functions.

DESCRIPTIVE NOTE: Research rept... AUG 78 34P #eiss.Gid AUG 78 Weiss.Gideon :Pinedo.Michael

REPT. NO. ORC-78-16 CONTRACT: NO0014-77-C-0299, AFOSR-77-3213

UNCLASSIFIED REPORT

DESCRIPTORS: "Multiprocessors. "Dynamic programming. Scheduling. Exponential functions. Time intervals. Stochastic processes. Distribution functions. Cost effectiveness. Flow charting. Life cycles IDENTIFIERS: MUNRO42379

We consider preemptive scheduling of N tasks on  $\mathfrak m$  processors; processors have different speeds, tasks require amounts of work which are exponentially distributed, with different parameters. The shortest (longest) expected processing time among those not yet completed to the fastest processor available. 2nd shortest (longest) to the 2nd

available, 2nd shortest (longast) to the 2nd fastest etc., are examined, and shown to minimize expected values of various cost functions. As special cases we obtain policies which minimize expected flowtime, expected makespan and expected lifetime of a series system with m component locations and N spares. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZC#07

AD-A062 407 9/3 5/2

ROCKWELL INTERNATIONAL ANAHEIM CA ELECTRONIC DEVICES

Hybrid Technology Cost Peduction Improvement Sudy Program. Volume II. Abstracts of Articles on Hybrid

(11)

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DESCRIPTIVE NOTE: Final rept. APR 78 109P REPT. NO. C78-299/501-V0L-2 CONTRACT: N09163-77-C-0299

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A062

DESCRIPTORS: \*Microcircuits. \*Hybrid circuits. \*Literature surveys. \*Abstracts. Bibliographies. Reliability(Electronics). Cost analysis.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A062 406 9/3 9/5

ROCKWELL INTERNATIONAL ANAHEIM CA ELECTRONIC DEVICES DIV

Hybrid Technology Cost Reduction Improvement Study Program. Volume I. Results of Literature Search and

Questionnaire Survey. (U)

DESCRIPTIVE NOTE: Final rept. 2 Sep 77-2 Mar 78. P Licari.J. J. ;Perkins.K. APR 78 108P Li
L.;
REPT. NO. C78-299/501-V0LCONTRACT: N00163-77-C-0299

C78-299/501-YOL-1

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2 AD-A062 DESCRIPTORS: \*Microcircuits. \*Hybrid circuits. \*Avionics, Literature surveys,
Reliability(Electronics), Cost analysis,
Savings, Adaptation, Questionnairis, Surveys,
Bibliographies (U)

Hybrid microelectronic circuits continue to fulfill a growing need in military avionics systems where physical size (volume and weight) and performance requirements cannot be met by the more conventional packaging techniques such as discrete components on printed wiring boards, and where cost and schedules preclude the use of more advanced methods. The military market is generally characterized as fast turnaround, high reliability, and low to medium volume for any one circuit type. A system is usually composed of a large number of diverse rircuit types with usage of only 100 to 2000 circuits per year. These moderate quantities, coupled with lower nonrecurring design cost and snorter development times, often make hybrids an economic choice over custom LSI/VLSI. The hybrid market is cynamic and growing making it difficult to arrive at an annual sales figure: further most major aerospace companies have captive hybrid microcircuit facilities serving their system needs. However, for Evitage page Hybrid microelectronic circuits continue to fulfill companies have captive hybrid microcircuit facilities serving their system needs. However, estimates of the total military hybrid market for FY 1978, based on data received from the questionnaire, is \$250 to \$300 million, assuming an average price range of \$250 to \$300 per circuit. (U)

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DOC REPORT BIBLIOGRAFHY SEARCH CONTROL NO. ZOPOT

AD-A062 298 :3/1 19/1 14/1

ARMY MUBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA PETROLEUM AND ELVIRONMENTAL TECH DIV

Economic Analysis of the Rotar, Kiln and Fluidized Bed P and E Incinerators. (U)

DESCRIPTIVE NOTE: Final rept.. SEP 78 106P C:ccone.Vincent J. :Graves.
Alan P. :Santos.Joseph S. :Scola.Robert :
NITOR: ARLCD.SBIE TR-78033.AD-E400 220 MONITOR: ARLCD.SBIE

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Incinerators. \*Cost analysis.

\*Fluidized ped processors. \*Life cycle costs.
Rotation. Operation. Caracity(Quantity).
Wathematical models. Sensitivity. Discrimination. Decision making. Corputer applications. Industrial plants. Waste disposal. Solid procellants.
Explosives (U) DENTIFIERS: "Otary kilns. Prosent value unit Cost. Capital. Interest (U)

In the evaluation of alternate systems, it is In the evaluation of alternate systems, it is necessary to consider the economic factors associated with each system. The economic manalysis of the rotary kiln versus the fluidized bed incinerator was performed using the present value unit cost method. The method considers capital costs, operating mosts, time horizons, depreciation, interest and other related factors. In all cases considered, the fluidized bed incinerator was the preferred alternative, (Author) alternative. (Author) (0)

AD-A062 298

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A062 247

14/1 9/5

BOEING AEROSPACE CO SEATTLE WA ENGINEERING TECHNOLOGY

Hybrid Technology Cost Reduction and Reliability Improvement Study.

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DESCRIPTIVE NOTE: Final rept., DESCRIPTIVE NOTE: Final res MAR 78 155P Wai Buldhaupt.L. F.: REPT. NO. D180-24054-1 CONTRACT: N00163-77-C-0298 Waldron.H. M. . III:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Hybrid circuits. \*Costs. \*Microcircuits, Assembly, Industrial production.
Microelectronics, Avionics, Hybrid systems, Inin
films, Thick films, Specifications.
Reliability(Electronics), Cost analysis, Data

IDENTIFIERS: Electronics industry

The objective of this multi-phase program is to develop the materials, processes, and controls to improve reliability and reduce cost of hybrid microelectronics for application in military avionic systems. The objective of the first phase, the study effort covered by this report, is to develop a data base for the subsequent phases. The first phase, performed over a 6-month period, consisted of two tasks: (1) collection of data and information and (2) data assessment and analysis.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

5/9 AD-A062 195

NAVAL FOSTGPADUATE SCHOOL MONTEREY CALIF

Cost-Benefit Analysis of Training a Neval Reserve Seabce.

(U)

DESCRIPTIVE NOTE: Master's thesis.
DEC 78 57P F.sher.Radney Lee:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval training. \*Military reserves. Naval personnel. Cost analysis. Active cuty. Cost effectiveness, National Guard, Combat readiness, Theses

(U)

The defense of the United States today is based on the Total Force concept—including a combination of active duty and reserve forces in combination of active duty and reserve forces in being which provide for the security structure essential during national crisis. However, the Naval Reserve forces have been continually attacked and reduced in size over the past ten years. Is this continual reduction totally justified. An analysis of the costs to maintain a Ruserve Seabee relative to an active duty counterpart suggest that it costs seven times more to pay, train and support the latter. While trained to meet specialization and conditional requirements, the Reserve Scamee benefits both divid and other military organizations with contributed labor. Completing many construction projects during the Completing many construction projects during the year. The positive benefits at lower cost\_make t Reserve Scabee an asset to out country's Total Force. (Author) (11)

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DDC REPORT BIBLIOGRAPHY SEAFCH CONTROL NO. ZOMOT

AD-A062 169 13/10 14/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The FFG-7 Frigate an Application of the Design-to-Cost Concept. (U)

DESCRIPTIVE NOTE: Waster's thesis SEP 78 118P Antonio Teixeira : Cervaens Rodrigues.dose

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Frigates, \*Guided missile ships, \*Design to Cost. Naval architecture. Shipbuilding, Escort ships. Cost estimates, Fleets(Ships), Military force levels, Regression analysis, Mathenatical models, Optrational effectiveness, Naval operations, Theses
IDENTIFIERS: FFG 7 vessel

This thesis is the application of the concept of design-to-cost to the project of the FFG frigates. Using the available data relative to the major escort programs since 1950, a curve of force effectiveness vs. number of ships, similar to that presented by Vice Admiral Price in his congressional testimony on design of the patrol-frigate or FFG-7, was constructed and the results discussed. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A062 003 15/3 9/2

DEPARTMENT OF DEFENSE WASHINGTON D C

Optimization of a Computer Security Index Versus Cost.

(U)

JUN 78 67P missing.Richard P. :

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Data processing security.
\*Optimization. Computers. Cost effectiveness.
Computer programs. Computer printouts. FORTRAN.
Input output processing

(U)

In this paper, we propose a computer security index for measuring the security of computer systems and a strategy for burchasing computer security Countermeasures in a cost effective manner. Required inputs for the model include definition of threats and countermeasures, relative importance of threats, costs of countermeasures, and the threats. costs of countermeasures. and the threats. Costs of countermeasures, and the effectiveness of each countermeasure against each of the threats listed. If a standardized list of threats and countermeasures can be developed, the Computer security index could also be used to compare the security of different computer systems. (Author) (U)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M97

AD-A061 817 5/1 5/3

DATA RESCURCES INC WASHINGTON DC COST FORECASTING

Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories.

DESCRIFTIVE NOTE: Final rept..
JUN 76 124P Expl.Paul :Elwell.Craig :
CONTRACT: MDA903-77-D-0080

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Army budgets,
\*Inflation(Economics), \*Planning programming
budgeting, \*Cost estimates, \*Economic models,
Indexes(Ratios), Army operations, Maintenance
management, Recourse management, Rates, Price
index, Economictors, Meighting functions, Data bases, Computer programs

High inflation rates are forcing the Services to take a more full and accurate account of probable escalation in the planning, programming and execution of their operating budgets. This report addresses the development of a comprehensive, disaggregated procedure for forecasting escalation in the Operations and Maintenance portion of the Army Number (Author (Author) Budge: (Author) (U)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20907

AD-A061 636 9/3 5/3

SYRACUSE UNIV X Y

Multilevel Wodularization of Systems to Minimize Life Cycle Cost.

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DESCRIPTIVE NOTE: Final technical rept.. 50 Biegel.John E. :Bulcha. SEP 78 55P 81 Biscat : CONTRACT: F35602-75-C-0121

PROJ: 9567 TASK: 00 MONITOF: ARCE TR-78-207

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# UNCLASSIFIED REPORT

Availability: Dotument partially illegible. DESCRIPTORS: \*Electronic equipment. \*Yodular construction. \*Life cycle costs. Reliability. Mathematical models
IDENTIFIERS: \*WRADC95670016. PE62702F

(U)

Every electronic equipment modularization (partitioning of an electronic equipment into different numbers of line replaceable units) scheme incurs a different life cycle Gost. Wetnodology which allows an equipment to be modularized or partitioned in a fashion such that life cycle cost is minimized must be developed. This report documents a new procedure which can be used to this end. (Author) (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 421 5/1 5/11 14/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost Benefit Analysis of the Department of Defense Family Housing Program.

DESCRIPTIVE NOTE: Master's thesis, SEP 78 110P Klein, Terry Owens;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost effectiveness.
\*Housing(Dwellings), Department of Dafense. Naval shore facilities, Morale, Management.

family housing system. (Author)

This thesis examines the costs and the benefits of alternative approaches to managing DDD family housing assets. The two approaches examined are variable Housing Allowance and Fair Market Rental. These two alternatives seek to alleviate the inequities of the present housing system in dramatically different ways, while a Variable Housing Allowance would be more advantageous to the Service member, a Fair Market Rental system is bring promoted within Congress and the Executive Branch. An approach which combines elements of both the Variable Housing Allowance and Fair Market Rental is recommended as the most viable and equitable alternative to the present family housing system. (Author)

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AD-A061 403 13/2 5/3 5/4

COAST GUARD WASHINGTON D C MARINE ENVIRONMENTAL PROTECTION

A Fee Collection Mechanism for the Dil Pollution Liability and Compensation Legislation.

(U)

DESCRIPTIVE NOTE: Final rept..

AUG 78 66P Christensen.Michael W.:
Froenlich.Maryann B.:
REPT. NO. USCG-WEP-78-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Oil pollution, \*Oil spills, \*Costs, \*Legislation, Collecting methods, Grude oil, Environmental protection, Water pollution, Impo IDENTIFIERS: +Oil pollution liability

The Presidential Initiatives for the reduction of oil pollution of our nation's waters (17 March 1977) mandated 'a study of the fee collection mechanism for the Comprehensive oil pollution fund'.
The proposed legislation creates a 5200 M fund
Called 'Superfund' to cover clean up costs and to
Compensate victims for damages from oil pollution.
The fund will be sustained by a fee not to exceed \$.03 per parrel on all oil domestically produced and imported. Separate collection schemes are required for domestic crude oil, imported crude oil and products, and exported crude oil. Existing reporting and collection mechanisms would be modified to accommodate this fee collection mechanism. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A061 389

DYNAMICS RESEARCH CORP WILMINGTON WASS

Digital Avionics Information System (DAIS). Volume II. Training Requirements Analysis Model Users Guide.

DESCRIPTIVE NOTE: Final rept. May 75-Jan 78, SEP 78 79P Czuchry.Andrew J.: D SEP 78 79P Czuchry, Andrew J.: Doyle, Kristy M.: Frueh, Jonathan T.: Baran, H. Anthony: Dieterly, Duncan L.: CONTRACT: F33615-75-C-5218

PROJ: 2051 TASK: '00

MONITOR: AFHRL

TR-78-58(II)

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A056 DESCRIPTORS: \*Avionics, \*Digital systems, \*Information systems, \*Air force training, \*Life cycle costs, Manuals, Military requirements, \*Information Transactions Identification.

Models, Operation, Interactions, Identification, Problem solving, Computer aided design, Cost

models, Selection
IDENTIFIERS: DAIS(Digital Avionics Information System), WUAFHRL20510001, PEG3243F

(U) The training requirements analysis model (TRAMOD) described in this user's guide represents an inportant portion of the larger effort called the Digital Avionics Information System (DAIS) Life Cycle Cost (LCC) Study. TRAMOD is the second of three models that comprise a LCC modeling second of three models that comprise a LCC modeling system for use in the early stages of system development. As part of the overall modeling system, the training model is an efficient tool for developing training programs on the basis of task, time, and resource criteria. A database containing information associated with these criteria is also included. The interactive nature of TRAMOD affords the user great flexibility in structuring its operation while retaining the capability of arrows the user great flexibility in structural operation while retaining the capability of addressing specific training problems in depth. This guide explains the available options and illustrates the manner in which user/model interaction is accomplished. (Author) វេបា

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A061 357

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AIR FORCE INST CT TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Air Force Acquisition Logistics Division. its Creation and Role.

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DESCRIPTIVE NOTE: Master's thesis. SEP 78 150P Powers.Clarke w.: Recktenwalt.Thomas J.: REPT. NO. AFIT-LSSR-32-78B

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force procurement. \*Life cycle costs. \*Lcgistics support. Weapon systems. Acquisition. Logistics management. Integrated systems. Missions. History. Theses
IDENTIFIERS: Air force Acquisition Logistics

This thesis is a study of the Air Force Acquisition Logistics Division (AFALD) and how it fits into the acquisition community. The accomplishments of AFALD are examined against its accomplishments of AFALD are examined against its objectives of influencing logistics supportability early in the acquisition process and providing a smooth transition of management respons. Dility from AFSC to AFLC at PMPT. To accomplish this, the thesis begins with a discussion of the acquisition process and a chronological development of the acquisition philosophy and structure from the Army Signal Corps in 1917 to the creation of AFALD. Then AFALD, along with its deputates, are examined as to mission and structure for interface into the acquisition community. Accomplishments of into the acquisition community. Accordishments of AFALD are then compared to AFALD's stated mission and objectives. Finally, several questions Concerning lines of authority and responsibility are raised about the various organizations involved in the acquisition process. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 304 5/1 14/1 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Summary and Analysis of the Initial Application of Life Cycle Costing Techniques to a Major Weapon System Acquisition. (B)

DESCRIPTIVE NOTE: Master's thesis. SEP 78 110P Be Daniel P. ; REPT. NO. AFIT-LSSR-35-78B Bell.Archie C. : Turney.

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force procurement, \*Life cycle costs, \*Attack aircraft, Cost models, Logistics support, Air Force budgets, Cost effectiveness.
Systems analysis, Aircraft maintenance.
Approximation(Mathematics), Theses
IDENTIFIERS: A-10 aircraft

The first USAF major system acquisition program in which there was explicit consideration given to LCC was the A-X/A-\*O Close Air Support Aircraft competition. LCC considerations were Aircraft competition. LCC considerations were quantified using an operating and support (0 and S) cost model developed under Project ABLE (Acquisition Based upon consideration of Logistics Effects). Air Force objectives in applying the 0 and S cost model were: (1) to encourage contractor consideration of operating and support costs in system design. (2) to aid in and support costs in system design, (2) to aid in source selection, (3) to aid in evaluation of engineering change proposals, and (4) to aid in determining the magnitude of award fee (if any) to be granted the contractor. This research has focused on the degree to which these objectives were actually met, problems encountered in meeting them, actually met, problems encountered in meeting them, and suggestions for improving future applications et. 0 and 5 cost models in LCC programs. Several major deficiencies were discovered in data use and model application that cast serious doubt on the efficacy of this first 0 and 5 cost model application and require amelioration to avoid repetition of problems in future acquisition programs. (Author) programs: (Author) ~(ÙĴ

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DDC REFURT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A061 300 15/5 5/1 5/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB CHIO SCHOOL OF SYSTEMS AND LOGISTICS

Identification and Definition of the Management Cost Elements for Contractor Furnished Equipment and Government furnished Equipment.

DESCRIPTIVE NOTE: Master's thesis. SEP 78 135P Philip D. : Dillard.Billy D. :Inscoe.

REPT. NO. AFIT-LSSR-22-788

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## UNCLASSIFIED REPORT

DESCRIPTORS: \*Air force equipment. \*Management planning and control. \*Cost analysis. Contract administration. Value engineering. Methodology. Cost effectiveness. Air Force procurement. Economics, Ineses

ASPR requires that the program manager perform a cost analysis to determine which components should be procured as GFE instead of being purchased from the prime contractor as CFE. Many cost factors contribute to the decision to provide an item as CFE or GFE. One cost that must be considered is the cost of managing the item. which includes, for example, personnel costs and government and contractor overhead costs. The authors have Contractor overhead costs. The authors have identified, defined, and assessed the use of relevant and practical elements of contractor and government management cost that should be considered in the CFE/GFE selection process. The study shows that the cost elements are considered important, but not frequently considered, and generally management cost analysis is inadequate. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 227

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14/1 9/2

WESTINGHOUSE DEFENSE AND ELECTRONIC SYSTEMS CENTER SALTIMORE MD SYSTEMS DEVELOPMENT DIV

Integrated Thermal Avionics Design (U) (ITAD).

DESCRIPTIVE NOTE: Final rept..

JUN 78 156P Porter.R. F. ;Levitt.E.
R. ;Lord,Y. ;Dolbeare,R. T. ;Worsnam,R.
H. ;1 REPT. NO. 78-0610 CONTRACT: F33615-77-C-2074

PROJ: 2402 TASK: '04

MONITOR: AFFDL

TR-78-76

# UKCLASSIFIED REPORT

DESCRIPTORS: \*Avionics, \*Life cycle costs, \*Computer aided design, Computer programs, Trade off analyses, Systems engineering, Environmental management, Aircraft equipment, Computer architecture, Algorithms
IDENTIFIERS: PE62201F, WUAFFDL24020407 (U)

This volume contains a description of the ITAD study program results. It includes definition of the computer facility requirements and software and shows by example the improvement to be made in Life Cycle cost when ITAD is applied to the design of electronic equipment. (Author) (111)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A061 157 13/2 5/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Systems Approach to Life-Cycle Design of Pavements. Volume I. LIFE2 User's Manual.

(U)

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DESCRIPTIVE NOTE: final rept..

SEP 78 93P Lindow.E. S.:

REPT. NO. CERL-TR-M-253-VOL-1

PROJ: 4A763734DT08

TASK: 01

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Pavements. \*Life cycle costs.
\*Manuals. User needs. Experimental design.
Runways. Roads. Computer programs. Maintenance.
Pavement bases. Construction. Civil engineering. Concrete IDENTIFIERS: PE63734A. ASTOB. WUOO1

This report is the first of a three-volume report which documents an automated system (LIFE2), for analyzing pavement designs and maintenance and repair strategies based on life-cycle costs. LIFE2 models existing Corps of Engineers criteria for designing both rigid and flexible pavements for airfields, roads, and streets. The program also includes analytical procedures for evaluating earthwork, drainage, and frost protection requirements, as well as maintenance costs. The resulting combinations of design schemes and maintenance strategies are ranked by total cost over the design life of the pavement. the design life of the pavement.

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

9/2 AD-A061 148 19/5 19/6

ARING RESEARCH CORP ANNAPOLIS MD

Reliability, Maintainability, Strategic Reliability, and Life Cycle Cost Comparison Analysis of Three Alternative Mk 71 Mod 0 Gun Mount Control System Designs.

DESCRIPTIVE NOTE: Final rept.,
JUL 78 79P Klimowitch.P.;
REPT. NO. 1644-03-3-1805
CONTRACT: NO0197-76-C-0141

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Fire control systems. \*Naval guns, \*Microprocessors. Re'iability, Maintainability. Life cycle costs. Specifications. Logistics management, Gun mounts. Comparison. Systems IDENTIFIERS: Mark-71 Mod-0 guns(8-in./65 cal)

This report summarizes the work conducted by ARINC Research Corporation under Contract N00197-76-C-0141, Tasks 3 and 4, for the Gun System Engineering Center/Naval Ordnance Station, Louisville, Kentucky- These contract tasks required comparisons of reliability. maintainability, strategic reliability, and life cycle costs of three alternate control systems for the 8in./55 Caliber Mk 71 Mod 0 Major Caliber Light Weight Gun (MCLWG) and a review of a preliminary development specification for a microprocessor-based control system for this gun. (Author)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20#07

9/5 9/1 13/8

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND FORT MONMOUTH NJ ELECTRONICS TECHNOLOGY/DEVICES LAB

Low-Cost, Crossed-Field Amplifier N\_anderline Circuit Consepts.

DESCRIPTIVE NOTE: Research and development technical

rept.. AUG 78 592 Bates.Calvin D. :Hartley. Joseph H.: REPT. NO. DELET-TR-78-18 PROJ: 11162705AH94 TASK: B1

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## UNCLASSIFIED REPORT

DESCRIPTORS: \*Crossed field devices. \*Microwave amplifiers. \*Power amplifiers. \*Celay lines. Plasma spraying. Dielectrics. Low costs. Aluminum oxides. Seryllium oxides. S bard. L band. Substrates. Spinel IDENTIFIERS: Meanderlines. Shielded meanderlines.

PE62705A. ASH94

Experimental results of new. potentially low-cost. Crossed-field amplifier (CFA) anode circuits are presented and compared with state-of-the-art structures. The shaped-substrate meanderline (SSML) has emerged as the optimum choice for achieving the desired low-cost objectives without compromising the excellent electrical craracteristics of available injected beam CFA's (IBCFA). L-Band and S-Band meanderline circuits were designed and constructed on primarily low-dielectric constant substrates. Design aspects were investigated to optimize bandwidth and interaction impedance while maintaining simplified. low-cost structures. Circuit fabrication techniques using arc-plasma-sprayed (APS) spinel were evaluated and found deficient in the areas of low circuit attenuation and surface regularity. Laser machining techniques, which will be covered in another report. have recently emerged as the most promising approach for resolving SSAL fabrication problems, and achieving low-cost circuit structures. A simulated. SSML S-Band, anode design on beryllia dielectric was formulated and subsequently utilized by Northrop Corporation

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. . ZOMO7 5/1

AD-A061 146 6/5

ACADEMY OF HEALTH SCIENCES (ARMY) FORT SAM HOUSTON TEX HEALTH CARE STUDIES DIV

AMDSIST Program Field Evaluation Physician Savings and Cost Effectiveness.

DESCRIPTIVE NOTE: Final rept.,
AUG 78 163P Schopper.Aaron W.;
REPT. NO. HCSD-78-002-8

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Medical personnel, \*Physicians.
\*Cost' effectiveness, \*Manpower utilization, Army
personnel. Medical services
IDENTIFIERS: AMOSIST Program (U)

In response to the continuing shortage of physicians in the military, the US Army has recently developed a health care delivery system (the AMOSIST Program) which employs physician supervised enlisted corosmen (AMOSISTS) in Acute Minor Illness Clinics (AMISS) to treat unappointed ambulatory outpatients through the use of printed manuals of medical algorithms. The present report (the second of four to be written) presents the findings regarding the questions concerning the extent, if any, to which this physician extender program (a) saves physicians' 

## UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20407 14/1

AD-A061 127

13/2

CONSTRUCTION ENGINEERING RESEARCH LAB (ARM:) CHAMPAIGN

Engineering and Design Cost/Rate Forecasting System. Volume I. Wodel Development and Data Analysis.

(U)

DESCRIPTIVE NGTE: Final rept. SEP 78 67P Neath SEP 78 67P Neat REPT. NO. CERL-TR-P-94-VOL-: Neathammer.Robert D. :

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A061

DESCRIPTORS: \*Construction. \*Cost estimates. DESCRIPTURS: \*Construction. \*Lost estimates.

Mathematical models. Forecasting. Rates.

Computer programs. Army Corps of Engineers.

Military Jacilities. Buildings. Computer graphics.

Costs. Engineering. Watnematical prediction.

Confidence limits

IDENTIFIERS: TEXTRCNIX-4051 graphics system.

Military construction. Design

(U) (U)

This report discusses the development of statistically based models for forecasting engineering and design (E/D) costs in order to establish military construction cost targets for Corps of Engineers Districts and Divisions. Corps of Engineers Districts and Divisions. The model developed is programmed on the TEKIRGNIX 405' graphics system in the Office of the Chief of Engineers (OCE). When the model was verified, only one of 18 predictions was outside the prediction limits (95% confidence). The model is best used to project E/D costs 1 year in advance, and it is recommended that it be used to help establish cost targets for applicable Corps Divisions/Districts.

AD-A061 146

AD-A061 127

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? AD-A061 108 13/2 14/1 AD-A060 912 15/5 14/1 12/2 STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL Computation of the Optimal Average Cost Policy for the Two Terminal Shuttle. Engineering and Design Cost/Rate Forecasting System. Volume II- User's DESCRIPTIVE NOTE: Technical rept..

APR 78 35P Deb.Rajat K.: Manual. (U) APR 78 35P Dep.Rajat K.:
REPT. NO. TR-78
CONTRACT: NOC014-76-C-0418. NSF-ENG75-14847 CESCRIPTIVE NOTE: Final rept..

SEP 78 24P Neathammer.Robert D.;
REPT. NO. CERL-TR-P-94-VOL-2

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A061 DESCRIPTORS: \*Construction, \*Cost estimates.
Computer programs, Mathematical models, Rates. Corps of Engineers, Military facilities, Buildings, Computer graphics, Costs, Engineering, Mathematical prediction IDENTIFIERS: TEXTFONIX 4051 graphic system, (u) Military construction, Design, User manuals, BASIC programming language (U)

This volume describes the use of the Engineering and Design (E/D) Cost/Rate Forecasting System to maintain E/D data, to update the E/D forecasting model, and to forecast future E/D costs and rates. Volume I provides information on the model development and data analysis. (Author)

UNCLASSIFIED REPORT

DESCRIPTORS: \*Mass transportation. \*Operations research. \*Cost models. Terminals. Passengers. Traffic. Queueing theory. Markov processes. Dynamic programming. Optimization. Decision theory IDENTIFIERS: WUNRO47061

UNCLASSIFIED

This paper considers the problem of determining the optimal average cost policy for operating a shuttle between two terminals. The passengers arrive at each of the terminals, the passengers arrive at each of the terminals according to Poisson processes and are transported by a single carrier with capacity 0 < or \* infinity operating between the terminals. Under a fairly general cost structure, the optimal average cost policy is monotone, bounds are derived for the optimal control function and computational procedures for determining the optimal policy for both the finite and infinite capacity cases are presented.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A060 819

STANFORD UNIV CALIF SYSTEMS OPTIMIZATION LAB

Are Dual Variables Prices. If Not. How to Make Them More So.

(U)

DESCRIPTIVE NOTE: Technical rept.

MAR 78 18P Dantzig.George B.;

REPT. NO. SOL-78-6

CONTRACT: N00014-75-C-0267, Ey-76-S-03-0326-PA-

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Sponsored in part by Contract Ey-76-S-03-0326-PA-52 and Grants NSF-MCS76-81259 and NSF-ENG77-06761. DESCRIPTORS: \*Economics. \*Price index. Linear systems. Variables (U) IDENTIFIERS: Prices. WUNR047143

Actual prices in an economy reflect a number of institutional arrangements -- salaries. Savings, taxes, loans, interest, transfer payments, profits, rents, and investment Credits. These can be quite different from prices generated by a L.P. (Linear Program). The price of an item in the L.P. is the change in the objective value if an additional unit of the item is made available to the system. An unfortunate consequence is that any capacity (or labor) not fully used gets a zero price. The purpose of this paper is to show how to make a simple perturbation to the linear program, after it has been solved, so that the new dual variables behave more like actual prices. To do this we will need three assumptions: (a) the unused part of capacity is worth zero and can be deleted from the system; (b) an infinitasimal epsilon part of the used capacity is malleable; (c) the value of capacity can be measured by deleting the malleable epsilon pant and seeing what it is worth to put it back. We shall show that it is possible to associate new prices with the optimal solution to the perturbed linear program without changing the original optimal primal solution. The new prices remain invariant as the mall-able epsilon part of used daracity tends to zero. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 5/1

AD-A060 772 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Application of Life Cycle Costing Principles to Less than Major Programs.

(11)

DESCRIPTIVE NOTE: Master's thesis. SEP 78 108P Culp.Josep SEP 78 Culp. Joseph P. : Novy. Steven D. REPT. NO. AFIT-LSSR-6-785

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Life Cycle costs. \*\*\*anagement. \*Air Force procurement. Weapon systems. Trade off analyses. Theses. Models (U) IDENTIFIERS: Lessons learned

This study examined ten current life cycle cost (LCC) procurements of aircraft subsystems and equipment. The objectives of the research were to equipment. The objectives of the following identify potential LCC problem areas, to consolidate lessons learned from past and on-going ifferentiated programs, and to provide the basis for development of an improved and simplified LCC guidance document for the program manager. The methodology used was a combination of literature review and interviews with personnel within ASD currently responsible for various aspects of LCC. The interviews focused primarily on program managers, but included others involved with Contracting, testing, engineering, and LCC modeling. The study is organized into areas Covering early program considerations, models and data inputs, request for proposal and source selection, negotiation, contracting, and incentive considerations, LCC verification testing, and lessons learned. (Author)

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DOC REPORT EIBLIOGRAPHY SEAPCH CONTROL NO. ZOMO?

AD-A060 500 14/1 9/2

TEXAS A AND M UNIV COLLEGE STATION INST OF STATISTICS

Project Scheduling with Discontinuous (u) Piecewise Convex Activity Cost Functions.

DESCRIPTIVE NOTE: Technical rept...
SIP 78 25P Robieux.Ch
Sielken.Robert L. . Jr:
REPT. NO. THEMIS-1R-61
CONTRACT: N00014-78-C-0426 Robieux.Christian C. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost mode's, \*PERT. Nonlinear programming, Functional analysis. Scheduling.

Optimization, Data reduction, Graphs
IDENTIFIERS: Themis project, Project management,
Convex programming, MUNRO47179 (U) (U)

When an activity car be performed with different techniques, the activity cost function may be a discontinuous piecewise convex function of the activity's duration. This makes the determination of the minimum cost schedule satisfying a specified project deadline a nonconvex problem. However, of an activity may be performed using a combination of the different techniques, the concept of a convex hull can be used to transform the activity's Cost function. The resulting convex problem can be solved by the existing PERT procedures. Therefore, this paper extends the applicability of existing PERT procedures to problems with discontinuous piecewise linear or piecewise Convex activity cost functions. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A060 346 15/5 14/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Acquisition Costing in the Federal (U) Government.

AUG 78 James R. : 512 Cheslow.Richard T. : Dever.

REPT. NO. LMI-77-15 CONTRACT: MDA903-77-C-0370

UNCLASSIFIED REPORT

DESCRIPTORS: \*Acquisition. \*Cost analysis. Planning. Budgets. Procurement. Logistics. Quality assurance. Standardization. Cost models.

Cost estimates

The quality of acquisition costing in the Federal Government is generally good. Some problems exist but they can be solved by specific actions covering a small number of people or by expanding current programs, structures or techniques. The primary recommendation is that cost estimating, cost analysis and price analysis become a unified function and that each Department and Agency determine the most effective organizational location and career pattern for unified Costing offices. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 14/1 15/5 AD-A059 863 10/2 21/7

ARMY TROOP SUPPORT AND AVIATION MATERIEL READINESS COMMAND

Historical Escalation of Operation and Maintenance Costs for Field Generator Sets.

DESCRIPTIVE NOTE: final rept. FY75-FY78.

JUL 78 36P Gille, Warren H. . Jr;
REPT. NO. TSARCOM-TR-78-7

## UNCLASSIFIED REPORT

DESCRIPTORS: •Electric generators. •Cost analysis. rield equipment. Maintenance management. Life cycle costs, Cost estimates. Operation. Cost models. Maintenance, Reciprocating functions. Price irdex. Contracts. Reciprocating engines. Diesel engines, Army procurement

This report updates the costs developed for Operating and Maintaining Generator Sets established by the Jost Estimating Relationships (CER's) in TROSCOM Technical Report 74-12. The methodology employed is based on ratio and proportion analysis, wherein each individual component of Operating and Maintenance (O and M) Cost is updated using a specialized individual component of operating and Maintenance (0 and M) Cost is updated using a specialized index. Then, the cost components are reaggregated into a revised 0 and M Cost, which more accurately reflects the actual cost than would escalation by a single gross factor. The report covers full load and half load operating costs for most common 60 HZ and 400 HZ Gasoline Engine Driven (GED) Generator Sets, and also those for common 60 HZ Diesel Engine Driven (DED) Generator Sets. The escalation factor for 400 HZ DED Generator Sets is assumed to be the same as that for corresponding 60 HZ DED Generator Sets, using the previous TROSCOM Tech Report 74-12. The complete statement of methodology is included which allows the analysis to be adapted by the user to fit the specific time period desired. The Generator Sets referenced in this Tech Report are used to support various types of equipment; which means that the cost escalation factors provided should be of value in determining 0 and M Cost for generators used in a variety

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UNCLASSIFIED DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A059 767 5/1

ADJUTANT GENERAL CENTER WASHINGTON D C

Army Club Vanagement Study 1977. Volume II. Appendices. (U)

DESCRIPTIVE NOTE: Final rept. Mar 77-Apr 78.

APR 78 336P Batts.John H. Henderson.
R. :Lee.F. :Belgrano.R. :Helcher.:

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A059 DESCRIPTORS: \*Wanagement planning and control. \*Cost analysis. \*Systems analysis. Military facilities. Personnel management. Army procurement. Army training

IDENTIFIERS: Club management. Army club (u) **s**unagement

The Army Club ganagement Study 1977 was conducted to review forces impaiting upon clubs in the current and future environment, evaluate the Army Club system, examine and engliate alternative organizational structures for the management of organizational structures for 1 e management of Army clubs, address the cost 1 pact of significant curtrilment or withdrawal of appropriated fund support for clubs and the n J to generate an Army wide club facility improvement and construction program. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

A0-A059 571

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB CHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Analysis on Producing Improved Technical Order Data for the F-15 Weapon System.

DESCRIPTIVE NOTE: Mater's thesis.
JUN 78 152P Bennett,Robert Wilmer;
Moravek,William D. K.;
REPT. NO. AFIT-LSSR-27-78A

# UNCLASSIFIED PEPCRT

DESCRIPTORS: \*Weapon systems. \*Aircraft maintenance. \*Cost analysis, Air Force procurement.
Maintenance management. Maintenance personnel.
Personnel management (U)

IDENTIFIERS: F-16 aircraft, F-15 weapon

\*vste\*

The United States Air Force has expressed strong interest in finding methods of reducing weapon system maintenance cost. One method is to increase system maintenance cost. Une method is to increase the productivity of maintenance personnel by providing better technical data. High maintenance personnel cost makes it imperative that a more efficient, improved, proceduralized TO (PTO) format be developed and utilized. Due to the inherent advantages of PTOs, the F-15 Technical Order Management Agency manager is in the process of evaluating the cost of converting the F-15 TOS to the PTO format. A Cost versus benefits analysis of the advantages and disadvantages of PTOs has been accomplished to assist top level or PIUS has been accomplished to assist top level management in deciding the appropriate type TO option to procure. To accomplish the analysis this thesis identifies the steps in the TO procurement process, expalins the techniques used by McDonnell-Douglas Aircraft Company to develop cost estimates for the F-15 meapon system TOP: describes the advantages of procuring the F-15 meapon system. develop cost estimates for the F-15 weapon system TOS; describes the advantages of producing the F-15 weapon system TOS in the PTO format, and estimates where possible the monetary, savings derived from the advantages of the improved PTO format. This thesis concludes that the F-15 weapon system technical data should be produced in the PTO format (Author). format. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

15/5

Forecasting Depot Overnaul Costs of Tactical Missile Guidance and Control Supsystems.

(u)

DESCRIPTIVE NOTE: Master's thesis.

JUN 78 97P Eighenberger.Joel D. :
Norville.Donald F. : REPT. NO. AFIT-LSSR-9-78A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Air to air missiles. \*Air to surface missiles. \*Life cycle costs. \*Design to cost. Cost models. Guided missile components. Guidance. Flight Control systems. Maintenance. Repair. Tactical meapons, mathematical prediction. Estimates, Logistics support. Theses

íU:

IAC ACCESSION NUMBER: GC-790217 Recently, increased emphasis has been placed on IAC DOCUMENT TYPE: Recently, increased emphasis has been placed un designing systems for supportability due to the significance of support costs on the total life Cycle Post of the system. One of the most important Contributors to tactical missile support costs is the Cost of depot openhaul of quidance and control Subsystems (GCS). Despite its importance, depot Overhaul costs are not currently forecast by the Operations and support cost model used by Warner Robins Air Logistics Center, the system manager for taggical missiles. Instead, the model requires an externally derived estimate of this cost as input data. However, accurate estimating as input cata, nowever, accurate estimation teheniques have not veen developed to forecast the cost of tactical missile GCS depot overhaul during system development. The authors, using the technique of multiple linerar repression (\*IRR), identified several physical characteristics of a GCS. which are important determinants of depot overhaul cost. These important determinants were then used to develop a cost estimating relationship model for foredasting GCS depot overhaul cost during tactical missile system development. (Author)

IAC SUBJECT TERMS: G--(U)Guided missiles. Guided missile components. Guidance systems. Control systems. AD=A059 567

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A059 516 15/5

MESTINGHOUSE ELECTRIC CORP HUNT VALLEY NO

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume 2.

DESCRIPTIVE NOTE: Final nept. Jun 77-Mar 78.
APR 78 159F Feltus.Erasmus E.:
CONTRACT: F33615-77-C-1105 PROJ: 2003 TASK: 09 MONITOR: AFAL TR-78-49-VOL-2

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A059 354. DESCRIPTORS: "Avionics, "Cost models. "Cost estimates, "Life Cycle Conts, "Logistics support, Experimental design, Parameters, Mathematical prediction (U) IDENTIFIERS: ALPOS(Avionics Laboratory Predictive Operations and Support). PE62204F (U)

Recent DDD experience shows that a prime factor in the evaluation of alternative weapon systems for performing a particular mission is Life Cycle Cost (LCC). Since 70% of the system LCC is determined by the end of the conceptual phase, it is important that techniques to predict LCC be available during the phase. Since system definition is not complete enough in this phase to berform detailer, analysis using accounting models, the major tool which can be used is parametric estimating models. This report describes a model which relates models. This report describes a model which relates the available design parameters to LCC via various cost estimating relationships (CERs). This document is Volume II of the final Report which describes the mathematical and statistical techniques used to obtain the cost estimating relationships and parametric estimating relationships needed to develop the Avionic Laboratory Predictive Operations and Support (ALPOS) Cost Model. (Author) (11)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZGMOT

AD-AD59 510 :7/9 15/3 15/5

GENERAL ELECTRIC CO SYRACUSE N Y ELECTRONIC SYSTEMS

Unattended Ragar Station Design for Dewline Application. Volume II. (U)

DESCRIPTIVE MOTE: Final technical rept. 19 Jul-19 Dec . JAN 78 245P Apriel.w. E. :Bell.S. E. :Gensten.E. J. :Johnson.R. M. :Murrow.D.

U. : CONTRACT: F19628-77-C-02:2 MONITOR: ESD TR-75-:76-Vol-2

## UNCLASSIFIED REPORT

DESCRIPTORS: Radam stations. -Seamon madam. \*Early warning systems. \*Logistics support. \*Life cycle costs. Arctic radions. Ground stations. Area Coverage. Tracking Stations. Cost models. Installation. Reliability IDENTIFIERS: Unattended radar stations. (U) Availability. Distant early warning system ful

This report examines the feathbillity of implementing and maintaining a string of Unattended Radar Stations in the Arctic. The study is Conceptual relative to design, installation. Operation, raintenance, and support of Unattended Stations and attendant proplems such as security. reliability, maintaintoility, availability, and life Cycle Cost. Cost Drivers are identified and potential solution alternatives with recommendations presented. The conclusion is that, with reasonable develorment, economical Unattended Arctic Radar Stations are possible, (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 354 15/5

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Modul Volume III.

(U)

DESCRIPTIVE NOTE: Final rept. Jun 77-Mar 78.

APR 78 39P Turek, John P. : Wienecke, E.

Louis , III: Feltus, Erasmus E. :

CONTRACT: F33615-77-C-1105

PROJ: 2003 TASK: 09

MONITOR: AFAL TR-78-49-VOL-3

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A059 164.'
DESCRIPTORS: \*Avionics. \*Logistics support,
\*Weapon systems, \*Life cycle Costs. Cost
estimates, Cost models, Predictions, Maintenanc
IDENTIFIERS: WUAFAL20030912, PEG-204F (U)

Recent DDD experience shows that a prime factor in the evaluation of alternative weapon systems for performing a particular mission is Life Cycle Cost (LCC). Since 70% of the system LCC is determined by the end of the conceptual phase, it is important that techniques to predict LCC be available during that phase. Since system definition is not complete enough in this phase to perform detailed analysis using accounting models, the major tool which can be used is parametric estimating models. This report describes a model which relates the available design parameters to LCC via various cost estimating relationships (CERs). This document is Volume III of the Final Report which describes the consolidated data base utilized to develop the Avionics Laboratory Predictive Operations and Support (ALPOS) cost model. The Air Force Program Monitor was Lt Thomas T. James Jr. (AFAL/AAA-3), System Evaluation Group. Avionic Systems Engineering Branch. (Author) Recent DOD experience shows that a prime factor (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A059 307

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analysis of Forward Pricing Rates and Their Effectiveness in Indirect Cost Management.

(U)

DESCRIPTIVE NOTE: Master's thesis.

JUN 78 111P Jones.Thom
Richard L.: Jones, Thomas G. :Yolne. REPT. NO. AFIT-LSSR-2-78A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Price index. \*Cost estimates. \*Cost effectiveness. Management planning and control. Cost analysis. Decision making. Military procurement. IDENTIFIERS: Overhead costs. Cost management

(V)

Overhead costs make up a substantial portion of the DOD dollars spent in the procurement of defense systems. Therefore, overnead control has become an area of special concern to government contract area of special concern to government contract managers, and has spurred an increasing amount of manpower at the Air Force Plant Representative Offices. Air Force Contract Management Division, and Contract Mairtenance Center Detachments to influence aerospace contractors toward greater efficiency and effectiveness in the area of indirect cost management. This study examined the current indirect cost estimating literature and procedures for establishing forward pricing rates for indirect costs. In addition, forward pricing rate data from various aerospace contractors were analyzed to determine whether there are significant trends contractors. patterns among the forward pricing rates proposed by the contractor, the rates negotiated or recommended by the government, and the rates actually experienced by the contractor during the time period under study. The authors found that there is not a statistically the contractor, the rates negotiated or recommended by the government, and the rates actually experienced by the contractor. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 9/2 AD-A059 306 14/ 15/5

BATTELLE COLUMBUS LABS OHIO

Life' Cycle Cost Analysis of Instruction-Set Architecture Standardization for Military Computer-Based Systems.

DESCRIPTIVE NOTE: Final rept..
JUL 78 128P Stone, Harold S.;
CONTRACT: DAAG29-76-D-0100 DESCRIPTIVE NOTE:

PROJ: 1L162701AH92 YASK: 'B1

MONITOR: CORADCOM 78-8

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with SUPPLEMENTARY NUTE: Prepared in cooperation with California Univ.

DESCRIPTORS: \*Computer architecture, \*Life cycle costs, Cost analysis, Computer programs.

Standardization, Cost models, AN/UYK-7. AN/
UYK-20, AN/GYQ-21, Army procurement, /rmy equipment, Army planning

IDENTIFIERS: AN/UYK-12, AN/UYK-197
DEC2721A ASSUC (U) (U) PE62701A, ASH92

A life cycle cost analysis of 78 Army/Navy military computer-based systems is described in order to determine the most cost-effective approach to standardization of computer (instruction-set) architectures. Two basic instruction-set architectures. Two basic instruction-set architecture scenarios are considered: (1) standardization upon four widely used military computer architectures (AN/UYK-7, AN/UYK-20, AN/UYK-19 and AN/GYK-12) as computer family architectures (CFA's) and (2) architectures (CFA's) and (2)
standardization upon a single CFA. The singleCFA scenario is further subdivided into five
candidate anchitectures: i.e. aforementioned four
architectures plus AN/GYQ-21 (PDP-11). The
life cycle cost model provides for acquisition of the
78 systems in lots of 26 in 1980, 1985 and 1990 and
for subsequent deployment over a 10-year period.
Military Computer Family (MCF) modules and
chassis are amployed in all architecture scenarios.
Total life cycle cost is defined as the sum of
common life cycle cost, hardware life cycle cost of
all 78 systems and applications software life cycle
cost of all 78 Systems. (U

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AD-A053 290 5/1 15/5 14/1

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

Development of a Field Labor Rate for Army CUY

Aviation Maintenance.

DESCRIPTIVE NOTE: Final rept.. AUG 78 William E. : -13P Krueger. Earl A. : Bodden.

(U)

REPT. NO. USAAVRADCOM-TR-78-40

UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft maintenance. \*Labor. \*Maintenance personnel, \*Cost analysis, Army personnel. Maintenance management. Manpower. Economic analysis. Army aviation. Requirements.

(U) IDENTIFIERS: Field Labor Rates

An hourly Labor Rate is developed in this paper An hourly Labor Rate is developed in this paper for a generic Army direct maintenance person. Weighted averages, ba ad on current AVAM and AVIM TOE's, are utilized to determine the rank. MOS, and flying status of this generic maintenance person. The total cost per man per year is calculated IAW the cost categories specified in DA Pamphlet 11-4. Productive man hours per year (peacetime) are estimated utilizing current estimated maintenance man hour requirements, available man hours per year (combat) and current authorized and required manning for TOE's. The resulting hourly labor rate should be usable in resulting hourly lapor rate should be usable in Economic Analyses and minor cost studies. (Author)

AD-A059 290

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 283

5/3 12/

SRI INTERNATIONAL ARLINGTON VA STRATEGIC STUDIES CENTER

Deflation of the 18 Sector Soviet Input-Output Tables. (U)

DESCRIPTIVE NOTE: Final rept., AUG 78 84P Guill,Gene D.; REPT. NO. SSC-TN-5943-4 CONTRACT: 77-B004691-000

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Economic models, \*Price index,
\*Input output models, \*USSR,
Inflation(Economics), Tables(Data),
Algorithms, Estimates, Interpolation,
Coefficients, Matrices(Mathematics), Weighting
functions, Industrial production, Agriculture,
Transportation, Econometrics, Macroeconomics (U)
IDENTIFIERS: LPN-SRI-5943 (U)

This technical note represents research undertaken for the SSC's Soviet and Comparative Economics Program in the further development of the SRI-WEFA Econometric Model of the Soviet Union. This report describes work on deflating a series of input-output tables in producers' prices generated for the SRI-WEFA model and aimed at facilitating the better integration of the input-output component of that model with the macroequation system, the latter operating with constant 1970 prices. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 224 13/10 5/1

GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS

The Labor Market of the United States Shipbuidding Industry, 1960-1970.

DESCRIPTIVE NOTE: Scientific rept..

JUN 78 181P Martin.John Charles:
REPT. NO. SERIAL-T-383
CONTRACT: N000014-75-C-0729

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Doctoral thesis.

DESCRIPTORS: \*Sniobuliding. \*Labor. \*Cost
analysis. \*Attrition. Losses. Geographical
distribution. Costs. Manpower. Impact.
Industries. Naval personnel. Theses (U)
IDENTIFIERS: Labor market. Wages.
WUNR347020 (U)

This study presents a detailed analysis of the labor market of the United States shipbuilding industry. Primary emphasis is given to the wage rates and earnings in shipbuilding and their apparent impact on industry turnover and mobility. It appears that the noncompetitive wages and earnings of older, more experienced workers in shipbuilding results in a loss of these workers to the conscruction and durable manufacturing industries. To correct this loss, the findings suggest that the wager of older, more experienced shipbuilding workers be increased to levels competitive with those is other industries. In part, the resulting higher wage costs can be offset by dampening pay increases of young workers and through reduced training costs and improved productivity. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOZ

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MITRE CORP BEDFORD MASS

SEEK IGLOO Life Cycle Cost Model. Valume II. User's Manuai. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUL 78 159P ferraiolo.
H.; Moynihan,R. A.;
REPT. NO. MTR-3577-VOL-2
CONTRACT: F19028-78-C-0001 ferraiolo.J. K. :James.J.

MONITOR: ESD TR-78-155-VOL-2

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A058 632.\*

DESCRIPTORS: \*Programming manuals, \*Life cycle costs, \*Radar stations, \*User needs, Surveillance, Mathematical models, Maintenance, Interactive graphics, Computer applications, Subroutines, Computer programs

IDENTIFIERS: \*SEEK IGLOO radar, SEEK IGLOO (ט) project, LPN-Mitre-6260 (U)

An interactive Life Cycle Cost (LCC)
Mathematical model with a built-in sensitivity
analysis capability has been developed for use in the
evaluation of proposed designs for the Air Force
SEEK IGLOO Radar System. This User's Manual
provides the information necessary to run the
computerized LCC Model effectively. In
addition, a complete discussion of the particular
Cost Elements used to calculate Life Cycle
Cost is given in Appendix C. and the
sensitivity analysis component of the LCC Model
is presented in Appendix D. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 188 13/9 1/3

HONEYWELL INC ST LOUIS PARK MN AVIONICS DIV

Investigation of a Low-Cost Servoactuator for

DESCRIPTIVE NOTE: Final rept. Apr 77-Mar 78.

JUL 78 90P He REPT. NO. W0597-FR CONTRACT: DAAJ02-77-C-0025 90P Hedeen.James O. :

PROJ: 1L162114AH73 TASK: 00

MONITOR: USARTL TR-78-30

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Actuators. \*Servomechanisms. Low costs. Performance tests. Test and evaluation. Helicopters. Fluidic amplifiers. Valves. Cylindrical bodies. Breadboard models. Fluid mechanics

IDENTIFIERS: HYSAS(Helicopter Hydrofluidic Stability Augmentation System). Helicopter hydrofluidic stability augmentation system.

Servoactuators, Spool valve, Spring centeres cy; inder, WU001, PE62114A

This document covers the design and testing of a fluidic input servoactuator to perform the series servoactuator function in a helicopter hydrofluidic stability augmentation system (HYSAS). The servoactuator consists of a two-stage fluidic servoactuator consists of a two-stage fluidic amplifier cascade driving a conventional spool valve that positions a spring-centered cy'inder. Simplicity and minimum cost commensurate with essential servoactuator performance was the design goal. A breadboard model servoactuator was designed, fabricated, and bench tested to evaluate feasibility. Servoactuator performance objectives were met at nominal supply conditions, but not over the complete operational oil temperature range. (Author) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Analysis and Computation of a Base Labor Rate for Cost Models of Major Weapon System Acquisition.

DESCRIPTIVE NOTE: M Master's thesis. 3P Knuth,Dale E. :Unger.

Robert F. : REPT. NO. AFIT-LSSR-21-78A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Labor. \*Cost analysis. \*Cost models. Rates, Costs. Theses, Weapon systems. Acquisition, Air Force personnel IDENTIFIERS: Full cost approach, Maintenance cost (U) system, Base labor rates, Indirect costs. Direct (U) costs

The purpose of this thesis was to analyze and The purpose of this thesis was to analyze and compare the Base Labor Rates determined by the full cost approach versus the Maintenance Cost System. If the labor rates were determined to closely approximate each other, then the MCS would be - efficient way to obtain a base level maintenance labor rate. Two bases in the Southersteen Heited Street which curpons maintenance labor rate. Iwo bases in the Southeastern United States which support transport aircraft were studied. The elements of cost which make up the Depot Labor Rate were used to facilitate the full cost of the Base Labor Rate. The elements of cost were subdivided into three Categories—direct labor. subdivided into three categories—direct labor.
indirect labor, and overhead. The summation of
these elements were divided by the manhours available
to determine a labor rate. This rate was compared
to the rate derived from the MCS. The rates were
companable at one base, but not at the other. The
results were inconclusive and further study was
recommended. (Author) (u) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 14/2

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB CHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Conceptual Model of the Department of Defense Major System Acquisition

(U)

DESCRIPTIVE HOTE: Master's thesis.
JUN 78 137P Lawson.Dia Lawson. Diann : Osternus. Damond L.: REPT. NO. AFIT-LSSR-20-78A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems. \*Acquisition. \*Models. Systems analysis. Procurement. Theses. Costs. Porformance(Engineering) IDENTIFIERS: Cost escalation. Inadequate (0) (0)

The Department of Defense's weapon system acquisition process has come under increasing scrutiny by Congress in the last two decades because of increased cost and inadequate performance of its new weapon systems. Many studies have been made on specific aspects of the acquisition process to improve acquisition strategies. As a result. constant changes have been made in the process in an attempt to eliminate problems. However, none of the changes have significantly improved the process. The problem of developing and implementing effective solutions to the acquisition process appear to stem not from valid research but from a lack of understanding of the total system and the environment in which the process operates. The Fuderal Procurement Institute expressed the degree for a model that would depict the contextual setting of the The Department of Defense's weapon system Procurement Institute expressed the degree for a model that would depict the contextual setting of the acquisition process to aid in formulating changes to the process using current research and in directing future research. The authors present a conceptual model of the DoD acquisition process that incorporates the contextual setting of the process. describes the major interactive factors, and captured the influences of these factors on each other as well as on the entire process. (Author) as on the entire process. (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 182 14/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Automatic Test Equipment Software Life Cycle Cost Simulation Model Validation.

DESCRIPTIVE NOTE: Master's thesis.

JUN 78 150P Novak, Frederick V. : Winters. JUN 78 150P No.
Henry Jr;
REPT. NO. AFIT-LSSR-16-78A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Test equipment, Automatic, Simulation, Models, Validation, Regression analysis, Computer programs, Theses (U)

This thesis concerns validating a model, developed in 1973 by Air Force Institute of Technology students, Captains Wilson and Morton, which was designed to aid managers in predicting acquisition and support costs of Automatic Test Equipment (ATE) software. The validation effort used the method of differences for coding nominal level data obtained from interviews of software programmers, and analysis of variance and multiple linear regression to derive a relationship between a manhours analysis of variance and multiple linear regression to durive a relationship between a manhours correction factor, the dependent variable, and Language, Documentation, and Training, the independent variables. Outputs of the model were compared against manhours from historical data on ATE software in the C-5A, B-52, F-111, and F-4 weapon systems. The model's systems parameters were updated, model outputs were changed using FORTRAN statements, and all tables were graphed. Model control cards were changed for compatibility with General Purpose Simulation System 6000 version 2 on the Headquarters Air Force Logistics Command CREATE computer system. The authors concluded the model's predictive capability was good only to a 30% accuracy. Because of major changes in the software life cycle, the model should be restructured before it is used to estimate the cost of ATE software. (Author) (II) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A059 169 5/3

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SRI INTERNATIONAL ARLINGTON VA STRATEGIC STUDIES

Price Indexes for Soviet 18-Sector Input-Output Tables for 1959-1975. (0)

DESCRIPTIVE NOTE: Final rept..

JUN 78 112P Treml.Vladimir G.:

REPT. NO. SSC-IN-5943-1

CONTRACT: 77-B004691-000

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Price index. \*Conversion.
Information processing. Tables(Data). USSR. Construction. Transportation. Agriculture. Distribution. Economics)

IDENTIFIERS: Input output tables. Agricultural subsidies. LPN-S91-5943

This report presents price indexes and Inis report presents price indexes and supplementary information needed for the conversion of a series of 18-sector Soviet input-output tables in producers' prices for 1959-1975 from current to constant 1970 prices. Appendices present the derivation and documentation of indexes for the industrial sectors, construction, transportation and distributions. distribution services, and agriculture. A final appendix describes and documents adjustments needed due to agricultural subsidies. (Author) (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 164 1/3 5/1

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume I.

DESCRIPTIVE NOTE: E: Final rept. Jun 77-Mar 78. 182P Turek.John P. ;Louis III:Feltus Erasmus E. ; APR 78 182P Wienecke.E., III CONTRACT: F33615-77-C-1105 PROJ: 2003 TASK: 09

MONITOR: AFAL TR-78-49-VOL-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Avionics. \*Cost estimates. \*Cost models. Life cycle costs. Computer applications. Predictions, Air Force planning. Logistics support, Operations research, Computer programs. FORTRAN

IDENTIFIERS: WUAFAL20030912. PE62204F (U)

Recent DOD experience stacks that a prime factor in the evaluation of alternative weapon systems for in the evaluation of alternative weapon systems for performing a particular mission is Life Cycle (LCC). Since 70% of the system LCC is determined by the end of the conceptual phase, it is important that techniques to predict LCC be a alable during that phase. Since system definition is not complete enough in this phase to perform detailed analysis using excepting media. definition is not complete enough in this phase to perform detailed analysis using accounting models. the major tool which can be used is parametric estimating models. This report describes a model which relates the available design parameters to LCC via various cost estimating relationships (CERs). This document is volume I of the Final Report which describes the development of a model for the Air Force Avionics Laboratory, the Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. The ALPOS model's CERs are utilized to estimate operating and support costs of avionics line replaceable units (LRUS). The Air Force Program Monitor was Lt Thomas G. James, Jr., System Evaluation Group (AFAL/AAA=3): Avionic Systems Engineering Branch. (Author) (U)

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DEC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 008 1/5 9/2 14/1

ARING RESEARCH CORP ANNAPOLIS MD

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume III. User's Manual and Program Decumentation for the Facilities Maintenance Cost Model.

DESCRIPTIVE NOTE: Final rept. Mar-Sep 76.
MAY 78 49P Greene.L. B.: Witt.J.: DESCRIPTIVE NOIS: Final rept. Mar-Sep 76.

MAY 78 49P Greene.L. B.: Witt.J.

Sternberg-Powidzki.M.:
CONTRACT: D01-TSC-1173

MONITOR: FAA-AFF.TSC 220-78-01-3.FAA-78-1.3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A0 39 007

DESCRIPTORS: \*Air traffic control terminal areas. DESCRIPTORS: "Air traffic control terminal areas.

\*Cost models. \*Computerized simulation. \*Computer
programs. Manuals. Delay. Scheouling.

Maintenance management. Approach. Preventive
maintenance. Manpower. Cost analysis. Test and
evaluation. Weather forecasting

IDENIFFIERS: Boston Terminal Control Area.

(U) User delay cost model. UDCM(User Delay Cost (2)

The Edulities Maintenance Cost Model (FMCM) is an analytic model designed to calculate (FMCM) is an analytic model dysigned to calculate expected annual labor costs of maintenance within a given FAA maintenance sector. The model is programmed in FORTRAN IV and has been demonstrated on the CDC Kronos time-sharing system. Model inputs are facility identification data, maintenance support scenarios, and facility reliability and maintainability data. The principal model outputs include the expected annual direct labor and salary costs of maintaining a specific facility type within a sector, the required number of personnel by skill level for that facility type, the costs of preventive maintenance and corrective maintenance, and the costs of call-backs. The model also provides total cost and labor data on all of the facilities within the sector. This is the third of three-volumes. Volume I documents the model formulation and demonstration. Volume II is a user's manual and contains the program documentation (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

1/5 14/1 AD-A039 007

ARINC RESEARCH CORP ANNAPOLIS MD

User Delay Cost Model and Facilities Maintenance Cost Wodel for a Terminal Control Area. Volume I. Model Formulation and Demonstration.

DESCRIPTIVE NOTE: Final rept. Mar-Sep 76.

MAY 78 125P Greene.L. B.:Witt.J.:
Sternberg-Powidzki.M.:
CONTRACT: DOT-TSG-1173-1
MONITOR: FAA-AAF, TSC 220-78-01~1.FAA-78-1.1

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A058 984.
DESCRIPTORS: \*Air traffic control terminal areas.
\*Cost models. \*Corputerized simulation.
Maintenance management, Delay, Scheduling,
Approach, Preventive maintenance. Manpower, Cost
analysis, Test and evaluation, Weather IDENTIFIERS: User delay cost model, UDCM(User Delay Cost Mode' - Rostc Terminal Control Area, rmumifactility Maintenance Cost Model), Facility maintenance cost model (U) (U)

The User Delay Cost Model (UDCM) is a The User Delay Cost Model (UDCM) is a Monte Carlo computer simulation of essential espects of Terminal Control Area (TCA) air traffic movements that would be affected by facility outages. The model can also evaluate delay effects due to other factors, such as weather, aircraft schedule intensity, and approach minima. Although the Boston TCA was selected as the study vehicle for development and demonstration, the model is structured so that it can be applied to other TCAs. The Facility Maintenance Cost Model [FMCM] is designed to evaluate the expected annual The Facility maintenance cost model (FMCM) is designed to evaluate the expected annual labor cost of maintaining FAA facilities within a maintenance sector. The model was developed for time-share computer application and can evaluate both the preventive maintenance and corrective maintenance required by any single facility (e.g., a visual omni-range or VOR), accumulate staffing and cost data on-similar facilities (e.g., all VORs) within the specified maintenance sector.

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UNCLASSIFIED DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-4058 984 1/5 14/1

ARINC RESEARCH CORP ANNAPOLIS #D

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume II. User's Manual and Program Documentation for the User Delay

DESCRIPTIVE NOTE: Final rept. May-Sep 76.

MAY 78 195P Greene.L. B.:Witt .J.:
Sternberg-Powidzki.M.:
CONTRACT: DGT-TSC-1173
MONITOR: FAA-AAF.TSC 220-78-01-2.FAA-78-1.2

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A059 DESCRIPTORS: \*A; \* traffic control terminal areas. \*Cost models. \*Computerized simulation. \*Computer programs. Manuals. De .y. Scheduling. Maintenance ranagement. Approach. Preventive maintenance. Manpower. Cost analysis. Test and maintenance. Mancower. Cost analysis. Test and evaluation. Yeather forecasting IDENTIFIERS: Boston terminal control area. User delay cost model. UDCM(User Delay Cost Model)

The User Delay Cost Model (UDCM) is a Monte Carlo simulation of certain classes of movement of air traffic in the Boston Terminal Control Area (TCA). It incorporates a weather module, an aircraft generation acquie, a facilities module, an aircraft generation sociale, a facilities module, and an air control module to simulate delays. resulting from facility Outage, imposed on four user classos: Air Carrier, Air Taxi, General Aviation, and Military Aircraft. The model Aviation, and Military Aircraft. The model can also be used to measure delays due to changing aircraft arrival rates, weather and other environmental considerations, approach types available, or any other factor that affects trail separation in final approach of the maximum number of aircraft an air controller can handle. This is the second of three volumes. Volume I documented the model formulation and demonstration. Volume III is a user's manual and program documentation for the facilities maintenance cost model. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A058 876 12/1 14/1

BROWN UNIV PROVIDENCE R 1 DIV OF APPLIED MATHEMATICS

Approximation Methods for the Minimum Average Cost Per Unit Time Problem with a Diffusion Model.

DITTUSION MODEL.

DESCRIPTIVE NOTE: Interim rept..
78 25P Kushner, Harold J.;
CONTRACT: N00014-76-C-0279, AFDSR-76-3063
PROJ: 2304

PROJ: 2304 TASK: 'A1

MONITOR: AFOSR TR-78-1359

# UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Sponsored in part by grant NSF-ENG73-03846.
DESCRIPTORS: \*Control theory, \*Cost analysis,
Diffusion theory, Dynamic programming.
Approximation(Mathematics), Functional analysis,
Markov processes, Yeak convergence, Optimization,
Covariance (U'

Covariance (U)
IDENTIFIERS: Martingales, Wiener processes,
PE61102F, WUAFOSR2304A1 (U)

Approximation methods for the minimum average cost per unit time problem with a controlled diffusion model is treated. In order to work with a bounded state space, the reflecting diffusion model of Strook and Varadhan is used, although other models can also be treated. The control problem is approximated by an average cost per unit time problem for a Markov chain, and weak convergence methods are used to show convergence of the minimum costs to that for the optimal diffusion. The procedure is quite natural and allows the approximation of many interesting functionals of the optimal process. (U)

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CDC REPORT BIBLINGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A058 632 9/2 5/3 17/9 15/

MITRE CORP BEDFORD MASS

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SEEK IGLOO Life Cycle Cost Model. Volume III. Maintenance Manual.

DESCRIPTIVF NOTE: Technical rept..
JUL 78 157P ferraiolo.J. K.:
REPT. NO. MTR-35T7-VOL-3
CONTRACT: F19628-78-C-0001
MONITOR: ESO TR-78-155-VOL-3

## UNGLASSIFIED REPORT

DESCRIPTORS: \*Programming manuals. \*Life cycle
costs. \*Computer programs. Maintenance. Radar
equipment. Mathematical models. Computer
applications. Fortran. Interactive graphics.
Subroutines. Input output processing (U)
IDENTIFIERS: Seek igloo radar. Seek igloo project.
LPN-Mitre-6260 (U)

An interactive Life Cycle Cost (LCC)
mathematical model with a built-in sensitivity
analysis capability has been developed for use in the
evaluation of proposed designs for the Air Force
SEEK IGLOO Radar System. This
Maintenance Manual provides the information
necessary to maintain, or possibly modify, the
FORTRAN code of the LCC Model. It contains a
Complete discussion of the structure, conventions,
subroutines, etc., of the LCC Model computer
program. A complete listing of the FORTRAN code
of the LCC Model, which contains extensive
internal comments, is included in the Maintenance
Manual. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A058 575 5/4 14/1

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

Optimizing the Cost Effectiveness of Military Corrections; An Assessment of Program Evaluations and Related Data. (U)

DESCRIPTIVE NOTE: Final rept..
JUN 78 165P Embert, Paul S. . Jr;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: \*Cost effectiveness. \*Corrections. DESCRIPTORS: \*Cost effectiveness. \*Correctiveness and the second of the

assessment, Military corrections, Civil suit (U)

This study attempted to identify possible changes to the overall military corrections system and determine which are cost effective and feasible. Methodologically, the research entailed ex post facto research, coupled with unstructural observations. Program evaluations and observations provided original data; assessments of avaluations allowed consideration of more material than was directly possible during the time allotad for the effort. Adoption of a Crime prevention model and development of a correctional decision model provided controls to the research. Investigation covaried structure to the research. Investigation revealed that there are a variety of means whereby that there are a variety of means whereby correctional expenditures can be decreased, without significant adverse consequences to society, military discipline, or Criminal recidivism. These include adaptation of new correctional approaches and adaptation of new correctional approaches and modifications within the existing system. Several other general and specific conclusions resulted in the formulation of a decisional matrix, which can be used as an aid in evaluating various correctional alternatives. The inquiry also revealed a lack of a clearly defined correctional objective, which detracts from cost effective or cost benefit analyses of the options available to the military, at well as other issues warranting further evaluation. other issues warranting further exploration.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A058 559 15/3 12/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Methodology for Establishing Equipment Utilization Standards. (0)

DESCRIPTIVE NOTE: Interim rept. Lindow.Edward S. :

JUL 78 83P Chovichien.V.: PT. NO. CERL-1R-M-247 REPT. NO. CERL-IR-PROJ: 4A762731AT41 TASK: 09

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Army equipment. \*Mathematical models. Utilization. Management. Standards. Economic analysis. Costs. Automation. Sensitivity.

Optimization IDENTIFIERS: Model parameters. Ownership costs. Operating costs. WU031. AST41. PE62731A

This report describes the first phase of a project designed to aid Army Facilities Engineers in improving equipment management. A rational basis for establishing equipment utilization standards was developed based on economic analyses of owning and operating costs. Mathematical models and automated procedures for their application are presented to compute minimum and objective utilization standards for equipment categories. Sample results are provided and the sensitivity of the model parameters is evaluated. Recommendations for implementing the utilization Standards are also given. Results can be used in an equipment management program to establish uniform Criteria for justifying equipment Ownership and for Gauging optimal equipment utilization. (Author)

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AD-A058 335 5/9

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

The Aviation Career Incentive Act of 1974: An Analysis of Short-Range Results in the United States Air Force, 1974-1977. (U)

Final rept.. P McAlear.Kenneth E.: DESCRIPTIVE NOTE: JUN 78 979

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: \*Aeronautics, \*Aviation personnel.
\*Careers, \*Retention(General). \*Costs.
\*Pilots, \*Navigators, Policies. Systems
analysis, Air Force research. Air Force
personnel, Officer personnel, Inequalities. The
IDENTIFIERS: Aviation Career Incentive Act (U) 1974. Flight pay system. Gata system (U)

This study analyzes the effects of the new flight pay system embodied in the Aviation Career Incentive Act of 1974 as it applies to rated pay System embodied in the Aviation Career Incentive Act of 1974 as it applies to rated Air Force officers. The analysis examines data on attraction, retention, cost, and workability of the Gate system in an effort to determine if the Act is meeting its goals and objectives. This paper also discusses inequities in right pay systems, past and present. Analysis reveals that the Act is not the panacea that Congress thought it would be. Attraction to a flying career, while still not a problem, has apparently not been effected by the Act. Retention of young pilots and navigators has not improved appreciably, if at all, since passage of the Act. Costs for flight pay in the Air Force have gone down, but so has the size of the force. While most rated officers are currently meeting their gates, this may not be indicative of future results due to liberal, implementing, credit policies and the gradual decline of flying opportunities. While this analysis is based on a short period of time, the results indicate a need for close monitoring and re-examination of the flight pay system by the U.S. Air Force.

(Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-4058 278 5/1 13/8 19/1

DAYRON CORP ORLANDO FLA

Production Engineering Program to Develop Improved Mass-Production Process for W42/ M46 Grenade Bodies.

(0)

DESCRIPTIVE NOTE: Final rept.
MAR 78 87P
CONTRACT: DAAK10-77-C-0050

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC reproductions will be in plack and white. DESCRIPTORS: \*Grenades. \*Manufacturing.

\*Production engineering. \*Cost effectiveness.
Engineering. Mass flow. Costs. Army equipment.
Flow charting. Reliability. Safety. Munitions industry. Quality assumance
IDENTIFIERS: M42 grenades. K46 grenades

This report describes the work performed by Dayron Corporation under Contract DAKKID-77-C-0050 for the development of a new process for manufacturing X42/M46 grenade bodies at reduced cost without jeopardizing munition effectiveness. safety or reliability.

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AD-A058 278

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PAGE

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A058 273

5/1

14/1 CALIFORNIA UNIV LOS ANGELES WESTERN MANAGEMENT SCIENCE INST

Making Better Use of Optimization Capability in Distribution System Planning.

78 46P Geoffrion.Arthur M. : W4SI-WORKING PAPER-279 JAN 78 REPT. NO. W4SI-WORKING PAPE CONTRACT: NOO014-75-C-0570

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Portions presented at the ORSA/ TIMS/AIIE Distribution Conference. Feb 78.
Hilton Head, SC.
DESCRIPTORS: \*Distribution, \*Optimization,
\*Planning, \*Costs, \*Logistics, Facilities,
Sensitivity, Systems analysis, Industrias, Food, Automotive components, Mines(Excavations), Mathematical analysis IDENTIFIERS: Consumer products, Distribution (U) (u) **systems** 

To have an efficient optimization technique for a class of problems is to have no more than a tool. Like any tool, it can be used well or poorly. This paper is about now to use one such tool for distribution planning problems (see the Companion piece by A. Geoffrior, G. Graves and L. Lee, 'Strategic Distribution System Planning: A Status Report, Working Paper 272A, March 1978). Discussion centers Paper 272A, Manch 1978). Discussion centers on four topics of importance in practical applications: the relationship between system Cost and the number of distribution facilities, sensitivity analysis, robustness analysis, and implementation priority analysis. Each of these topics requires the use of optimization in ways that are somethes less than obvious. Several illustrations are drawn from actual applications in the auto parts. the auto parts, Consumer products, food, and mining industries: (Author)

### UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONG?

AD-AC58 272

14/1

SYSTEMS CONTROL INC PALO ALTO CALIF

Economic Recuirements Analysis of Civil Air Navigation Alternatives. Volume I.

(\*!)

DESCRIPTIVE NOTE: Final ment, on Task 9.

APR 78 96P Solomon.H. L.:
CONTRACT: DOT-FA75WA-3662
MONITOR: FAA-ASP 76-3-VOL-1

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A058 228.

PESCRIPTORS: \*Navigation. \*Life cycle costs.
\*Economic analysis. \*Cost effectiveness. Test and
evaluation. #Goels. Computer programs. Costs.
Systems analysis. Alaska. Offshore. Impact.
Civil aviation. Loran. Gmeda navigation. Avionics

DENTIFIERS: Navigation systems. CONUS. DME guidance. Loran-C. GPS(Global Positioning System). VOR navigation

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This report Summarizes a study whose objectives ware to: Develop a life cycle cost computer model to evaluate various alternative civil aviation implementation of the mentation and implementation and recurring Costs and user avionics costs associated with each alternative: Develop rational implementation/transition scenarios for various combinations of the systems to provide civil air navigation coverage in the CONUS. Alaska. Oceanic and Off-shore regions: and Make an initial assessment of the economic impact upon the Initial assessment of the economic impact upon the FAA and civil aviation users for each scenario. Alternatives evaluated were VDR/DME. Loran-C. Gmega. Differential Cmega. and GPS. The least costly alternative, based upon combined civil user and FAA costs, was found to be continued use of VCR/DME. Sole use of GPS was found to be the most Costly alternative.

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A058 250 5/1 5/3

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CALIF

Life Cyc's Navy Enlisted Billet Costs--FY78.

(11)

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DESCRIPTIVE NOTE: Special rept.,
JUN 78 36P Martin.Jim I. :Koehler.
Ernest A. :Mairs,Lee S. :
REPT. NO. NPROC-SR-78-14

REPT. NO. NPRI PROJ: Z0109 TASK: Z0109PN

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. NPRDC-SR-SUPPLEMENTARY NUTE: Supersedes Rept. no. NPRDC-5R-77-16 dated Sep 77.

DESCRIPTORS: \*Life cycle costs.
\*Billets(Personnel). \*Enlisted personnel. Life cycles. Naval shore facilities.
Housing(Dwellings). Naval personnel. Manpower.
Personnel management. Mathematical models. Systems engineering. Systems management. Design to cost. Cost models. Cost models IDENTIFIERS: PE63707N, WUZ0109PN03

This report is the second in a series designed to provide hardware system managers, Systems designers, and design engineers with objective manpower

resources and life-cycly billet cost data upon which to base design decisiors. It supersedes the first report is: Jed-NPRDC Special Report 77-16 of September 1977, which presented life-cycle Navy enlisted billet costs based on FY77 data. Other design tools being developed. design tools being developed under this effort are listed in the section entitled 'Future Plans.'

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A058 228

14/1 17/7

SYSTEMS CONTROL INC PALO ALTO CALIF

Economic Requirements Aralysis of Civil Air Navigation Alternatives. Volume II.

(11)

DESCRIPTIVE NOTE: Final rept.. APR 78 409P S010=0 CON174CT: D0T-FA75WA-3662 MONITOR: FAA ASP-75-3-VOL-2 Solowon.H. L. :

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-AD58

272.
272.
DESCRIPTORS: \*Navigation. \*Life cycle costs.
\*Economic analysis. \*Cost effectiveness. Test and evaluation. Models. Computer programs. Costs.
Systems analysis. Alaska. Offshore. Impact.
Civil aviation. Loran. Dmega-navigation.

Avionics

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DEMTIFITRS: Navigation systems. Conus. DME guidance. Loran-C. GPS(Global Positioning System). VOR navigation

This report summarizes a study whose objectives were to: Develop a life cycle cost computer model to evaluate various alternative civil aviation model to evaluate various alternative Givi; aviation navigation systems: Project government implementation and recurring costs and user avionics costs issociated with each alternative: Develop rational implementation/transition scenarios for rational implementation/transition scenaries for various combinations of the Tystems to provide civil air navigation coverage in the CONUS. Alaska. Oceanic and Offes.ore regions: and Make ar initial assessment of the economic impact upon the FAA and civil aviation users for each scenario. Alternatives evaluated were VDR/CHE. Loran-C. Omega. Differential Omega. and GPS. The least costly alternative. based upon Coubined civil user and FAA costs, was found to be continued use of VDR/DME. Sole use of GPS was found to be the most costly alternative.

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AD-A058 228

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DEC REPORT BIGLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A058 225 9/3

CALIFORNIA UNIV BERKELEY ELECTROMICS RESEAPCH LAB

Applications of Analog Sampled Data Signal
Processing to Low-Cost Speech Bandwidth
Compression. (U)

DESCRIPTIVE NOTE: Semi-annual rest. for period ending 1 Mar 78.

78 11P Brodersen.R. #. :Gray.P.

CONTRACT: N00173-77-0-0238, ARPA Grdur-3424

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Vocoders, \*Speech compression, Analog systems, Low costs, %errospand, Signal processing, Analog to digital converters, Correlation techniques, Delay lines, Low passifilers

IDENTIFIERS: Large Scale Integration

The basic objective of this contract is to apply MOS-LSI techniques to the problem of narrow band vocodirg. In carticular, analog sampled data techniques are being used to implement the high speed processing required in an autocorrelation type linear predictive coder (LPC) and decoder. The remaining processing will then be performed in a relatively low speed (and therefore low cost) microprocessors. Also important in a complete narrow band vocoder is a pitch tracker. The method being investigated for this function is a modified version of the Gold-Rabiner time domain algorithm implemented using a hybrid analog-digital approach. This report will be a brief summary of the present state of the work on the above three components of a complete LPC

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A058 137 12/2

GEORGE MASHINGTON UNIV MASHINGTON D L PROGRAM IN LOGISTICS

Winimizing a Project Cost with Bounds on the Expectation and Yanvance of the Delay Time.

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DESCRIPTIVE NOTE: Scientific mept..
JUN 78 15P Falk.dames E.:

JUN 78 15P FAI REPT. NO. SERIAL-T-38: CONTRACT: NOS014-75-C-0729

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Scheduling. \*Nonlinear programming.
Delay. Queueing theory. Algorithms. Sequences.
Cost estimates. Theorems
IDENTIFIERS: %UNR347020

A problem is discussed involving a project consisting of a number of tasks, each of which must be performed in a sequential manner. Any of the tasks is subject to a notential delay of known duration beyond its scheduled starting time. The task delay times may be decreased with the addition of funding. We seek to minimize the cost of commisting the project, subject to bounds on both the expetiation and variance of the total delay time. An algorithm is presented to solve the general problem. An example illustrates the method. [U]

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Rate Stabilization at Navy Industrial Fund Research, Development, Test and Svaluation Activities.

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 126P Green, Donald Truman ;

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Budgets, \*Costs, \*Rates, \*Naval research laboratories, Accounting, Questionnaires, Theses, Cost analysis, Cost effectiveness, Stabilization, Research management. Test and evaluation

IDENTIFIERS: Rate stabilization, Financial statements, Billing, Funding (U)

The 13 Navy industrially funded RDT and E activities implemented rate stabilization in October 1976 under protest. With rate stabil'—Lion, DDD industrially funded activities bill their customers on the basis of stabilized bill their customers on the basis of stabilized billing rates that cannot be adjusted during the fiscal year as costs change. A basic objective is to allow customers to plan for cost escalation during the fiscal year as costs change. A basic objective is to allow customers to plan for cost escalation during a fiscal year by using rates established up to 15 months in advance of the fiscal year start. This thesis examines the operating results of rate stabilization at NIF RDT and E activities 18 months after implementation, in order to determine the degree of success in meeting rate stabilization objectives. Questionnaires and Financial Statements were used to gain research data. objectives. Questionnaires and Financial Statements were used to gain research data. Conclusions are that the RDT and E activities and their customers have opinions that rate stabilization entails more disadvantages than advantages. Rate stabilization is not marring the objective for which it was implemented since a majority of the RDT and E customers use the rates in budgoting. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A057 951 12/2 5/3

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Dynamic Theory of Production Correspondences.

DESCRIPTIVE NOTE: Research rept. 63P APR 78 Rolf: REPT. NO. JR Shephard.Ronald W. : Faere,

JRC-78-4 CONTRACT: N00014-76-C-0134, NSF- 4CS77-16054

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 1. AD-AD57

DESCRIPTERS: \*froduction indineering. \*Dynamic programming. \*Cost analysis. functional analysis. Systems analysis. Price index IDENTIFIERS: Dynamic production functions. Duality theory. Cost benefits

Chapters 7 thru 9 of a monograph on a Dynamic Theory of Production Correspondences are presented. Dualities and Shadow Pricing. Index Functions for Production Theory and Indirect Dynamic Production Correspondences are discussed. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A057 810 5/1 15/4

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND IL SYSTEMS ANALYSIS DIRECTORATE

Systems Analysis Directorate. Activities Summary, May 1977. (U)

DESCRIPTIVE NOTE: Final note. JUN 78 36P REPT. NO. DRSAR/SA/N~78

### UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: \*Army equioment, \*Cost analysis,
\*Army planning, \*Systems analysis. Costs, Cost
estimates, Predictions, Budgets, Protective masks,
Howitzers, Recoilless guns, Mortars, Ammunition,
Cost effectiveness, Production control
IDENTIFIERS: Engineering in Direct Support of
Production(EDSP), M-8 ala-ms, M-29A1
mortars, M-67 recoilless rifles, M-109A1
howitzers(155-mm), M-109A1B howitzers(155mm), M-109A2 howitzers(155-mm), M-17A1
protective masks, M-193 ammunition(5.56mm) (U) (U)

The purpose of this study was to compare the Engineering in Direct Support of Production (EDSP) costs from FY 74 through FY7T for (EDSP) costs from FY 74 through FY7T for selected items and to provide a basis for comparing and predicting future costs for budget planning. A neview of six items showed that the average percent of the total program costs represented by the EDSP charges ranged from 1.78% for the 5.56mm cartridge to 10.42% for the M8 alarm series. Total EDSP charges for these six items represented 2.10% of total program costs. The sampla size was too small and time period represented too short to identify commonalities in these EDSP costs that might be used for predicting. The recommendation was made that a standard 3% for EDSP for aach end item be included in the budget. Significant deviations would have to be fully justified on an exception basis. (Author) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A057 444 5/4 12/1 17/9

MITRE CORP BEDFORD MASS

SEEK 10100 Life Cycle Cost Model. Volume 1. Cost Element Equations.

DESCRIPTIVE-NOTE: Final rept., UUL 78 M. : 61P Moynihan.R. A. :Stein.W.

REPT. NO. MTR-3577-VOL-1 CONTRACT: F19628-78-C-0001 TR-78-155-VOL-1 MONITOR: ESD

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Cost models. \*Mathematical models. \*Mathematical analysis. \*Search radar, Cost analysis. Equations. Sensitivity. Test and evaluation. Air Force training. Computerized simulation. Data bases. Computer programs. FORTRAN. Logistics support. Maintenance. Repair. Inventory IDENTIFIERS: SEEK IGLOO Radar System. LPN-MITRE-6260 MITRE-6260

An interactive Life Cycle Cost (LCC)
Mathematical model with a built-in Sensitivity
Analysis capability has been developed for use in
the evaluation of proposed designs for the Air
Force SEEK IGLOO Radar System. The SEEK
IGLOO LCC Model consists of 10 cost elements
which describe acquisition costs as well as operation
and support Costs. This volume presents the and support Costs. This volume presents the equations for these cost elements. Also included is a full discussion of the assumptions made which impact the development of these cost element equations. (Author) (U)

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DDC REPURT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A057 343 14/1 15/3

CENTER FOR PLANNING AND RESEARCH INC PALO ALTO CALIF

Methods for Estimating Effectiveness and Cost of Civil Defense Program Elements.

DESCRIPTIVE NOTE: Final rept..
FEB 78 127P Strope, Walmer E. : Devaney, FEB 78 127P Sti John F. : CONTRACT: DCPA01-77-C-0223

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Cost effectiveness, \*Civil Defense, Cost estimates, Mathematical models, Methodology, Casualties, Reduction, Vulnerability, Emergencies, Operational readiness, Preparation, Cost analysis, Computer programs IDENTIFIERS: Measures of effectiveness. (0) Scenarios (U)

Two related methods of assessing the costeffectiveness of civil defense program elements in
reducing casualties are presented, one a hand
calculation procedure and the other a computer
routine adapted to the current DCPA casualty
assessment program. The methods erploy a defense
scenario that accounts for changes in population
vulnerability brought about by emergency operations
and human behavior. Demonstration results are
provided. Recommendations are made for further
development. (Author) development. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NG. ZOMOT

AD-A057 291 5/1

13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Case Study: FFG-7 Class Ship.

(U)

DESCRIPTIVE NOTE: Masten's thesis. 63P JUN 78 Faston.Frederick Bigelow :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. Frigates. Naval procurement. Learning curves. Shipbuilding. Guided missile ships. Case studies. Design to cost. Life cycle costs. Acquisition. Theses IDENTIFIERS: FFG 7 class vessels

Estimating the cost of a major weapons system is an extremely complex process involving interrelationships between a number of organizations. This thesis is an examination of the events surrounding the cost estimating effort involved for the FFG class ship using a case study approach. The case discusses concepts involved in the FFG procurement which include the high-low mix. design to cost. life cycle costing, lead ship/follcw-on ship procurement. fly before buy, independent cost estimating, and learning curve theory. A teaching note is provided to stimulate classroom discussion and analysis of the major areas covered in the case. Questions which may be used in classroom discussion or for assignment and the essentials of learning curve theory are also provided. (Author) Curve theory are also provided. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A056 996

17/2 20/12

RAYTHEON CO WALTHAM MASS RESEARCH DIV

Cost-Effective GaAs Read IMPATT

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Final rept. 29 Mar 76-31 Oct 77, P Wallace,R. N.; DESCRIPTIVE NOTE: MAY 78 786P Wai REPT. NO. S-2294 CONTRACT: F30602-76-C-0143 PROJ: 4600 TASK: '18

MONITOR: RADC TR-78-81

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Impatt diodes, \*Microwave equipment, \*Data links, Gall:um arsenides, Power amplifiers, Cost effectiveness, Strip transmission lines, Epitaxial growth, C band, Frequency modulation, Continuous waves IDENTIFIERS: Read diodes, Power combiners, (U)

TIM(Tapped Inverted Microstrip), Tapped Inverted Microstrip, PE62702F.

WURADC46001820

The objective of this program was to develop a low-cost 5-GHz 40-W FM CW transmitter, using GaAs Read IMPATT diodes as RF power-generating elements, suitable for data-link generating elements, suitable for data-link applications. The transmitter actually produced during the course of the program met most of the RF performance goals established initially, but the goals for size, weight, cost, and primary power consumption were not achieved. The transmitter system was divided into four major subassemblies; a VCO-driver, a multidiode output stage, a multichannel current regulator, and a DC-to-DC inverter. The VCO-driver produced a 3.3W CW output in the 4.97 - 5.03 GHz operating band, and was capable of more than 20 MHz peak-to-peak frequency deviation with modulating frequencies between 50 kHz and 12 MHz. The output stage combined four high-power single-diode modules. between 50 kHz and 12 MHz. The output stage combined four high-power single-diode modules, operating in the injection-locked oscillator mode, through a nonresonant multiport hybrid. Compact coaxial cavity oscillator circuits were used for the diode modules.

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diode modules.

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DDC REPORT BIBLIOGEAPHY SEARCH CONTROL NO. ZOMOT

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VOUGHT CORP DALLAS TEX

Ranjet Cost Estimating Handbook.

21/5

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DESCRIPTIVE NOTE: Technical rept. Apr 76-Jan 77.

MAY 76 326P Emmons.H. I. :Norwood.D.
L. :Rasmusen.J. E. :Reynolds.Homer E. :
CONTRACT: F33615-76-C-2043
PROJ: 3012
TASK: 08

MONITOR: AFAPL.CPIA TR-77-50-VOL-2.PUB-288

UNCLASSIFTED REPORT

Available from National Technical Information Service. Springfield. VA. 22161. PC\$ 100.00. MFS/100.00. No copies furnished by DDC. SUPPLEMENTARY NOTE: See also Rept. no. AFAPL-TR-77-

SUPPLEMENTARY NOTE: See also Rept. no. AFAPL-TR-50-VOL-1. AD-A054 856. DESCRIPTORS: \*Ramjet engines, \*Handbooks. \*Cost analysis, \*Cost estimates. \*Production. Costs. Methodology. Parts. Fuels, Ducted rockets. Cost models. Solid fuels. Jet engine fuels. Liquids IDENTIFIERS: Data sheets

This ramjet cost handbook is a result of work conducted under Air Force Contract F33615-76conducted under Air Force Contract F33615-76-C-2043 to generate cost data and to establish a cost methodology that will accurately predict the production costs of ramjet engines. The cost handbook contains a description of over one hundred and twenty-five different components which are defined as baseline components. The cost estimator selects from the handbook the appropriate components to fit his ramjet assembly, computes the cost from cost computation data sheets in the handbook, and totals all of the appropriate cost elements to arrive at the total engine cost. The methodology described in the cost handbook addresses many different ramjet types from simple podded arrangements of the liquid fuel ramjet to the more complex integral rocket/ramjet configurations including solid fuel ramjets and solid ducted rockets. It is applicable to a range of sizes from 6 in, diameter to 18 in, diameter and to production quantities up to 5000 engines. and to production quantities up to 5000 engines. (8) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix F. Computer Models for LCC.

(U)

JUN 78 125P REPT. NO. TTO-ORT-032-78B-V3-AP-F

### UNCLASSIFIED REPORT

Availability: Document partially illegible.

SUPPLEMENTARY NOTE: Supersedes report dated May 76.

AD-A027 643. Appendix F to report dated Apr 78.

AD-A055 147.

DESCRIPTORS: \*Tactical Communications. \*Cost DESCRIPTORS: \*Tactical Communications, \*Cost effectiveness, \*Life cycle costs, \*Computerized simulation, Computer programs, Communication equipment, Joint military activities, Management planning and control, Logistics support, Military raquirements, Maintenance personnel, Digital computers, Estimates, FORTRAN IDENTIFIERS: HP 9821A computers (U)

This appendix has been revised to update and correct some of the factors and cost estimating relationships (CER's) contained in the 1976 issue. This revision describes and documents computer models for CER's and presents sample life cycle cost calculations using the models. It also includes a revised FORTRAN IV Program User's includes a revised FORTRAN IV Program User's Guide incorporating military personnel and training costs as part of it's costing methodology. The TRI-TAC Life Cycle Cost Element Structures from Volume III is used for formatting output costs. New features have also been added which will assist in formatting the estimates in a manner suitable for CAIG/DSARC presentations. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT 14/1

AD-A056 936

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ARINC RESEARCH CORP ANNAPOLIS MD

Avionics Cost Development for Civil Application of Global Positioning System.

(U)

DESCRIPTIVE NOTE: Interim rept..
JUL 78 32P Kowalski
REPT. NO. 1326-01-4-1771
CONTRACT: DOT-FA76WA-3788 Kowalski.S. H. :

### UNCLASSIFIED REPORT

DESCRIPTCRS: \*Global positioning system. \*Avionics. \*Cost analysis. Systems engineering. Cost estimates. Civil aviation

101

This study of costs for avionics for civil use of the Global Positioning System (GPS). performed for the FAA Cffice of Systems Engineering Management (OSEM). was based on a uniform approach to rost estimating with the assistance of a pricing model. The system evaluated is the military-developed Z set with appropriate packaging modifications to meet the requirements of air carrier avionics standards and the less estimates. air carrier avionics standards and the less stringent environmental and mackaging requirements for general aviation. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20007

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JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume V. TRI-TAC Stylized Nodal Descriptions.

JUN 78 68P REPT. NO. TTO-ORT-032-78-95

UNCLASSIFIED REPORT

Availability: Document partially illegible. SUPPLEMENTARY NOTE: See also Volume 3, AD-A055 147.
DESCRIPTCRS: \*Tactical communications. \*Cost effectiveness, Telephone equipment, Trade off analyses, Cost models, Nodes, AN/TTC-42, Joint military activities. Communications networks. Communication switching centers. Military requirements, Defense planning IDENTIFIERS: AN/TTC-39 147

The purpose of this volume is to identify a limited number of typical stylized nodal models that have been developed by the TRI-TAC Office to define a range of alternatives for various types of cost effectiveness studies. Eleven nodal types are identified; four contain AN/ICC-39 switches, four are base on the AN/ICC-42, and three address the SB-3855 unit level switchboard. Each node is described in terms of a block diagram which shows its major elements and how they will be interconnected. Specific details of each node are presented and additionally, variations of the nodal configurations can be readily developed by either (1) revising one or more of the ground rules which changes the equipment allocations; on (2) varying the major assemblies in a 'stylized' node. (Author) (U) (U)

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DDC REPORT BIBLIOGPAPHY SEARCH CONTROL NO. ZOMO7

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DYNAMICS RESEARCH CORP WILMINGTON MASS

Digital Avionics Information System (DAIS). Volume I. Reliability and Maintainability Model.

(U)

DESCRIPTIVE NOTE: Final rept. May 75-Jul 77.

APR 78 62P Czuchry. Andrew J. :Glasier.
John M. :Kistler.Robert H. :Bristol.Marjorie A. :Baran.H. Anthony: CONTRACT: F33615-75-C-5218 PROJ: 2051 TASK: 00

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(U) (U)

MONITOR: AFHRL

IR-78-2(1)

UNCLASSIFIED REPORT

DESCRIPTORS: \*Avionics. \*Life cycle costs. \*Cost models. Digital systems. Computerized simulation. Reliability. Maintainability. Experimental design. Mathematical models. Air Force procurement. Acquisition. Failure(Electronics). Manpower. Military requirements. Spare parts. Repair.
Input output processing. Specifications
IDENTIFIERS: PEG3243F. WUAFHRL20510001

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The rel a lity and maintainability (R and M) model described in this report represents an important portion of a larger effort called the Digital Avionics Information System (DAIS) Digital Avionics Information System (DAIS)
Life Cycle Cost (LCC) Study. The R and
M model is the first of three models that comprise
a modeling system for use in LCC analysis of
avionics systems. The total system will provide the
Air Force with an enhanced in-house capability to
incorporate LCC considerations early in the system
acquisition process. As part of the overall
modeling system, the R and M model provides
estimates of failure rates maintenance management. modering system. The k and m moder provides estimates of failure rates, maintenance manpower requirements, support equipment requirements, and spares requirements which are used to generate estimates of system support costs. When operated in a stand-alone mode, the R and M model can be utilized to analyze the impact of various avionics design configurations on system support requirements. This report describes the R and M model in detail.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 14/1

AD-A056 191 5/9

LITTON SYSTEMS INC FORT BENNING GA MELLONICS SYSTEMS DEVELOPMENT DIV

A Consideration of Army Training Device Proficiency Assessment Capabilities. (u)

DESCRIPTIVE NOTE: Technical rept.,
JUN 78 73P Shelnutt.Jack B. :Smillie.
Robert J. :Bercos.James :
CONTRACT: DAHC19-77-C-0011
PROJ: 20762722A765
WONITOR: ARI TR-78-A20

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Training devices, \*Cost effectiveness, \*Army training, Military requirements. State of the art, Army equipment, Operational readiness, Army aviation, Ferformance(Human), Proficiency, Simulators

IDENTIFIERS: Skill qualification tests. (U) PE62722A, AS765

This report reviews the procedures and problems involved in the assessment of the use of training devices as a cost-effective alternative to the use of operational equipment for the evaluation of operational equipment for the evaluation of individual and collective proficiency in the U.S. Army. A review of the literature was conducted as well as an informal survey of personnel in other agencies who are involved in the use of training devices for proficiency assessment. This information was employed to: (a) review the use of training devices in proficiency assessment programs by agencies other than the Army; (b) to summarize aspects of proficiency test programs in the Army which are relevant to the present problem; and (c) to discuss issues which need to be considered in the assessment of the utility of using training devices for proficiency assessment. Recommendations were provided for future research planning. (Author) (U) planning. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A056 102 15/5

MITRE CORP BEDFORD MASS

AFSATCOM Life Cycle Cost Model.

James.J. H. :Stein.W. M.

1502 JUN 78 REPT. "O. CONTRACT: MIR-3057 F19628-77-C-0001 PROJ: 6340 MONITOR: ESD TR-78-144

## UNCLASSIFIED REPORT

Availability: Document partially illegible. DESCRIPTORS: \*Life cycle costs. \*Cost models. \*Communication satellites, \*Logistics. Air Force Mathematical models. Maintenance. Repair

(U) IDENTIFIERS: PE63302F (U)

A Life Cycle Cost (LCC) mathematical model has been developed for the Air Force Satellite Communications System (AFSATCOM). The model (under FORTRAN program name SITELCC) has been used in various tradeoff analyses involving acquisition Costs, operation and support costs, and system performance. The AFSATCOM LCC Model provides for three echelons of maintenance, for Communications terminal configurations of black boxes which may differ from base to base, and for reliability data which is a function of operating environment. In addition to LCC, the model calculates terminal availability as a result of initial sparing levels computed. This report presents the detailed structure of the model. A description of the output reports with illustration from a sample model run is included. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Unit Training Costs as a Part of Life Cycle Cost: A Methodology.

(u)

DESCRIPTIVE NOTE: Master's thesis,
JUN 78 100P Thompson.Grover Frank; Allen, James Marion ;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Army training, \*Life cycle costs.
\*Antitank weapons, Army budgets, Economic
analysis, Performance(Human), Training devices.
Army personnel, Theses, Company level
organizations, Battalion level organizations,
Military reserves, Cost effectiveness, Surface to
surface missiles
IDENTIFIERS: TOW missiles

This paper examines the unit training costs. defined herein as company and battalion level training, associated with the introduction of a new weapon system into the Army inventory. The Army Life Cycle Cost Model does not address unit training costs, and accordingly there is a significant cost during the acquisition process that is not recognized. Recommendations are included for a means to arrive at life cycle cost figures that include unit training and also enable unit commanders to anticipate training requirements generated by new weapon systems. (Author)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO? 15/5

AD-A055 665

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ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

Evaluation of Purchase Cost Factors.

(U)

DESCRIPTIVE NOTE: Final rept. APR 78 Wayne V. : 479 Williams. William B. : Zabei. REPT. NO. APRO-705

UNCLASSIFIED REPORT

DESCRIPTORS: \*Army procurement. \*Cost analysis. Contract proposals, Cost estimates, Contract administration, Cost erfectiveness, Contracts, Data bases. Regulations. Production. Inspection. Test and Evaluation. Military engineering. Military requirements. Standards

(U)

The conclusions of this study are that the obstacles to the inclusion of technical assistance costs in bid evaluation are formidable.

Deficiencies in technical data packages (TDP's) the absence of data bases reflecting technical assistance costs, and the inability to state and measure assistance costs with precision militare against the application of technical assistance costs as an 'other factor.' On the other hand, it does appear that potentially high costs of technical support could be used as an element in determining the responsibility of a prospective contractor. In addition, it would seem that development and use of a process control specification would reduce the need process control specification would reduce the need for technical assistance costs on certain contracts. (Author)

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DDC\_REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF

Software Acquisition Management Guidebook: Cost Estimation and Measurement.

(U)

DESCRIPTIVE NOTE: Technical rept.,
MAR 78 142P Finfer.Marsha :Mish.Russell

REPT. NO. SDC-TM-5772/007/02 CONTRACT: F19628-76-C-0236 MONITOR: ESD TR-78-140

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Command and control systems.

\*Communication and radio systems. \*Computer
programs. Handbooks. Air Force operations.

Specifications, Military requirements. Systems
management. Air Force procurement. Life cycle
costs, Quality assurance. On line systems.

Configuration management. User needs. Real time,
Closed loop systems. Display systems

(U)

The Software Cost Estimation and Measurement guidebook is designed to assist Air Force personnel who are responsible for estimating and controlling the costs of embedded software within command, control, and communications systems. It provides a basic understanding of the current methodologies used in the formation of Air Force and contractor software cost estimates. Insight is provided into some of the problems (and reasons for the problems) associated with software cost estimates made by both Government and industry. The guidebook discusses the role of parametric models used in cost estimation and reviews three experimental predictive models. It also discusses the process of monitoring software costs and schedules while providing guidance to relevant military regulations, specifications, standards, and supporting literature. Much of the information and guidance provided is applicable to smaller less complex systems, but in all cases, it should be tailored to the needs of individual projects. (Author)

#### UNCLASSIFIED

DDC REPORT BIPLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A055 147

17/2.1 15/3

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

15/7

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing.

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APR 78 106P REPT. NO. TIO-ORT-032-780-V3

## UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Supersedes report dated Jun 76.
AD-A027 827.
DESCRIPTORS: \*Tactical communications. \*Cost effectiveness. \*Life cycle costs. Management planning and control. Military requirements. Repair. Maintenance. Estimates. Parts. Maintenance personnel. Iraining

This volume serves as TRI-TAC Office instructions and guidance to the services and agencies of their preparation, reporting, and tracking of life cycle costs estimates of TRI-TAC systems, subsystems, and equipments. A general methodology for estimating and analyzing TRI-TAC life cycle costs applicable to long range planning, equipment design analysis, and trade-off studies is presented. Formats for reporting and summarizing life cycle costs using the TRI-TAC structure and elements are provided. Appendices A. B. and C. included in the volume, define the detailed TRI-TAC cost element structure and identifies cost estimating relationships for operating and support cost elements. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A054 954

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HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

Some Considerations in Aralyzing Training

Costs and Job Performance.

DESCRIPTIVE NOTE: Professional paper, FEB 78 3P Vineberg.Robe ;Taylor.Elaine N.; REPT. NO. HUMRRO-PP-5-78 Vineberg.Robert :Joyner,John

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Department of Defense Cost Analysis Symposium, Colorado Springs, CO, 27~29 Oct 77.

DESCRIPTORS: \*Military training, \*Cost effectiveness, Job analysis, Work functions, Performance(Human), Management planning and control, Symposia (U)

In summary, a task-level approach to costeffectiveness analysis would use information from an
analysis of training content, from occupational
analysis, and from performance ratings. It would
relate the losts of training and number of tasks in
which training is provided to the number of tasks in
which proficiency is attained at the completion of
training. Thus, the effectiveness of a training
program might be expressed by the number of tacks
taught, times the quality of performance.
Similarly, training costs could also be related to
the actual frequency and quality of task performance
in different types of jobs.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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RAND CORP SANTA MONICA CALIF

Estimated Costs of Extended Low-Rate Airframe Production.

(u)

DESCRIPTIVE NOTE: Interim rept.. MAR 78 69P Dr.
Joseph P.:
REPT. NO. RAND/R-2243-AF
CONTR::T: F49620-77-C-0023 Dreyfuss.David J. :Large.

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Airframes. \*Cost estimates. Production rate. Aeronautical engineering. Aircraft industry. Inflation(Economics).
Manufacturing. Aircraft. Tools. Materials.
Value engineering. Industrial production.
Specifications. Life cycle costs

Achieving a high rate of production as quickly as possible has traditionally been viewed as the most effective way of satisfying time-urgent inventory requirements while keeping production costs low. One common consequence has been the delivery of less than fully qualified production articles. This report discusses the cost of extending initial low-rate production while tests of early production articles continue. The relatively small resultant cost increases can potentially be offset by the delivery of more capable production items. lessened delivery of more capable production items. lessened needs for postdelivery modification or retrofit. and lower total-life system costs. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A054 767 7/1

13/2

CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CALIF

Operating Cost Evaluation of Sulfur Dioxide

Removal Systems for Boiler Applications.

DESCRIPTIVE NOTE: Rept. for Jan-Sep 77, APR 78 41P Slaminski, John M.; APR 78 41P REPT. NO. CEL-TR-864 PROJ: F57571 TASK: ZF57571

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Scrubbers. \*Boilers. Commercial equipment. Removal, Sulfur oxides. Exhaust gases, Limestone. Activated carbon. Sulfuric acid. Cost analysis. Power measurement. Maintenance. Power levels. Air pollution control equipment. Naval shore facilities

IDENTIFIERS: Sulfur dioxide. Sodium sulfite. Sodium bisulfite. PE62765N, WUJ1015 (U)

Seven commercial processes for extracting sulfur dioxide from steam or steam-electric generating plants are analytically compared. The operation and economics of lime and limestore slurry scrubbing, dilute and concentrated double alkali, and dilute sulfuric acid processes with gyposum disposal products are contrasted with sodium sulfite/bisulfite and activated char sulfur recovery systems. Each process is critically analyzed to yield system flows and operating expenses (including equipment power consumption, product disposal costs or credits, reagent requirements and operating and maintenance costs). The laws for scaling these results to any given plant capacity and coal sulfur content are developed and parametrically graphed. This information is a valuable guide for the Navy or utility engineer to perform accurate system evaluations. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MOT

AD-A054 503

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ARING RESEARCH CORP ANNAPOLIS MD

The Cost-Effectiveness of Standardization for Hull. Mechanical. and Electrical Equipment.

(11)

APR 78 59P REPT. NO. 1821-11-1-1733 CONTRACT: NO9140-77-D-0417

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Snip hulls. \*Ship auxiliary equipment. Standards. Cost effectiveness. Life cycle costs. Naval procurement. Military requirements. Contract administration. Shipbuilding. Investments. Research management. Work measurement. Navai operations.

(U)

Standardization of hull, mechanical, and electrical (MM and E) equipments in the Navy shipbuilding program is assumed to be cost-effective; however, life-cycle-cost estimates to substantiate this assumption are not available. This report presents the results of a study to determine the value to the Navy, over the total life cycle of a ship, of standardizing HM and E equipments. This report presents an overview of the Navy ship standardization program, the development of a standardization life-cycle-cost model. Standardization of hull, mechanical, and electrical Standardization-related work tasks, and a life-cycle-cost comparison of the use of standard and nonstandard HM and E components and equipments in different complexity categories. The results provide examples of reduced life-cycle costs achieved when a standard component or equipment is utilized. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A053 963

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MITRE CORP BEDFORD MASS

The Pentagon 'Four-Step'.

(U)

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MAR 78 28F REPT. NO. MTP-190 285 Waks.Norman :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Contract administration. \*Military procurement, \*Cost overruns, Contract proposals, Contracts, Department of Defense, Trade off analyses, Design to cost. Cost estimates, Life cycle costs, Weapon systems, Acquisition. Selection

In the Secretary of De ense's Annual Report for FY179 to the Congruss, released on 2 February 1978, he indicated that the Department of Defense (CDD) was currently testing a new concept for contractor source selection on major programs called the 'four-step' process. He further indicated that a decision would be made in February on whether DDD would adopt this process. DDD's encouragement of the publication by the Wall Street Journal of a favorable article on the subject on 6 Warch would seem to indicate that inis decision has been made and that DDD intends to go ahead and adopt the concept as a matter of policy. This paper questions both tha desirability and the necessity for DDD to do so, since the objectives of 'four-step' can be accomplished in other ways. And these ways do not risk reducing program results, as 'four-step' does. (Author)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A053 953 15/5

WRIGHT STATE UNIV DAYTOR OH DEPT OF ADMINISTRATIVE SCIENCE AND FINANCE

On the Benefit-to-Cost Ratio of Base-Level Stocking Decisions for Low Demand Items.

DESCRIPTIVE NOTE: .die m rept..

APR 78 23P .emmy.W. Steven :Genet.
Russell M. :Meitzler.fn:mas 0 :Miles.Ross E.: REPT. NO. WP-76-3011-19 CONTRACT: 4FGSR-76-3011

PRGJ: 2304 TASK: A5 MCNITOR: AFDSR

78-75-0818

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Inventory analysis. \*Cost effectiveness. \*Stockpiles. Decision making.
Aircraft. Aircraft equipment. Mathematical
analysis. Computer applications
IDENTIFIERS: PE61102F. WUAFOSR2304A5

(U)

This paper explores a fundamental cause of aircraft This paper explores a fundamental cause of aircraft non-availability. It snows that for current Air Force aircraft, a significant portion of the lack of supply availability is due to not stocking items at the base level. Basic research on methods to alleviate this problem in a cost-effective way is reported. It is shown, with specific, real world examples, now these methods can be applied to current inventory aircraft. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A053 937 9/2

ELECTRONIC SYSTEMS DIV HANSOM AFB MASS

A Computerized Mode: for Estimating Software Life Cycle Costs (Model Concept). Volume 1.

(U)

APR 78 289 Bourdon, Gerard A. : Duquette. Joseph A. ; REPT. NO. ESD-TR-77-253-VOL-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programs, \*Life cycle costs.
\*Kathematical models. Cost estimates, Management
planning and control, Cost models
IDENTIFIERS: \*Computer software (U)

This report is the first volume of a series of reports on the development of a computerized model for estimating software life cycle costs. This volume deals with the basic concepts of the model. The report defines the basic stages of the model, the methodologies employed, and the desired features of the model. The report contains enough information to allow operation of the model by manual methods. (Author) methods. (Author)

### UNCLASSIFIED

DDC REPORT SIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A053 872

13/10 14/1

MAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The AGOR-21 Class Oceanographic Research Ships: An Acquisition Analysis.

(11)

DESCRIPTIVE NOTE: Master's thesis. MAR 79 1152 Van Haaren.Cury G. :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Research ships. \*Willtary procurement. DESCRIPTURS: \*Research ships, \*whitery proceeds and the state of the s (0)

The use of commercial off the smelf products. Commercial standards and business practices to meet Commercial standards and business practices to meet Defense Material needs is receiving increasing attention. Defense acquisition policy-makers believe that using commercial products and standards is one way to reduce acquisition costs while still meeting mission needs. This thesis is a history and analysis of a successful ship acquisition program which utilized commercial standards and practices. Two current ship acquisition programs using the same concent are briefly described. The intent is same concept are briefly described. The intent is to illustrate the development of the acquisition Concept and the project manager's strategy as well as describe the planning and execution of the program. Describe the planning and execution of the program. Significant management problems were encountered due to use of commercial standards and practices. Emphasis is given to their solution. Contractor and ship operator evaluations of the program are provided. Several recommendations are made concerning use of Commercial standards and practices for future armitizing process. for future acquisition programs. (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A053 229 5/. 14/1 13/13 9/2

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Supervision and Administration Cost/Rate Forecasting System, Volume I. User's

DESCRIPTIVE NOTE: Special rept..
MAR 78 19? D'Connon.Michael J.;
Lidral,Robert:
REPT. No. CERL-SR-P-87

# UNCLASSIFIED REPSAT

DESCRIPTORS: "Management planning and control. "Cost models. Military engineering. Instruction manuals. Computer programs. Management information systems. Statistical data, Regression analysis. Data bases. Statistical analysis. Supervision. Supervisors. Administrative personnel. Mathematical prediction. Construction

This volume describes the use of the Supervision and Administration (S and A) Cost/Rate Forecasting System to Maintain S and A data, to undate the S and A forecasting model, and to forecast future S and A costs and rates. Volume 11, the Programmen's Guide, Contains software documentation. (Author)

### UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A053 228 13/3 5/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAVPAIGN

Trends in the Real Prices of Selected Construction Products and Materials, 1946-1976.

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DESCRIPTIVE NOTE: Special rept..

MAR 76 GGP Ramsson.R.;
REPT. NO. CERL-SP-D-84
PROJ: 447627314741
TASK: T7

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Construction materials. \*Cost analysis. Lumber. Structural steel. Plymood. Concrete, Fittings. Brass. Clay. Paperboard. Heating plants. Asphalt. Gypsum. Inflation(Economics), Price index IDENTIFIERS: Plumping fixtures. PE62731A. MUDOS. ASTE:

This study measured trends in the relative prices of 13 construction occors and materials from 1946 through 1976. The prices of three of these products—Douglas Fir lumber. Structural steel products, and steel reinforcing pers—make increased substantially gince world war II. The prices of plywood, building paper and board, heating equipment, asphalt, and gypsum products have declined during the post-war period. The prices of the remaining products—Southern Fine lumber, concrete products, millwork, plumbing fixtures and brass fittings, and structural clay products—have shown little on no champe. The pattern of the real prices of these products in 1976 suggests that savings in construction materials can be obtained by substituting for those products whose prices have increased. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A053 180 1/3 14/1

15/5

ADMINISTRATIVE SCIENCES CORP ALEXANDRIA VA

Naval Aircraft Operating and Support Cost Model - FY76 Revision.

MAR 78 84P REPI. NO. ASC-R-116 CONTRACT: NO0014-77-C-0180

UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval aircraft. \*Life cycle costs.
\*Cost models, Logistics support. Parametric
analysis, Computer programs, Cost estimates, Cost
analysis, Throughput. Programming manuals,
Aircraft maintenance, Replenishment, Repair (U)

This report documents the revisions of a parametric model for estimating Naval aircraft operating and support costs developed by Administrative Sciences Corporation. The model provides an estimate of average annual and life cycle 0 and 5 costs bused on aircraft physical characteristics and basic program parameters using parametric costs. costs based on aircraft physical characteristics and basic program parameters using parametric costestimating relationships, cost factors and throughputs, and has been used to support numerous cost analyses prepared for CAIG review as well as other special studies such as the Naval Escort force Mix Study and the Sea Based Air Study. It is updated often in order to remain responsive to each particular analysis, to reflect the changing nature of Naval aviation, and simply to remain timely. This report reflects the status of the model after incorporation of all FY1976 data. The bulk of the report is concerned with providing a clear, concise and complete definition of each cost element and the way it is estimated by the model. UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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WHARTON SCHOOL OF FINANCE AND COMMERCE PHILADELPHIA PA DEPT OF DECISION SCIENCES

Dynamic Theory of Contractual Incentives.

tuit

DESCRIPTIVE NOTE: Technical rept..
FEB 79 24P Blanning.Robert W.:
Kleindorfer.Paul R.:
REPT. NO. 78-01-03
CONTRACT: N0001 -77-C-0171

UNCLASSIFIED REPORT

DESCRIPTORS: \*Design to cost. \*Incentive contracts.
Cost models. Mathematical models. Probability.
Contract administration. Decision making. Weapon
systems. Military procurement. Management planning

(6)

The purpose of this paper is to construct a simple model of the information, incentive, and decision aspects of financial incentive system and to offer insights into the problem of a high-level government unit that wishes to encourage lower-level units and private contractors to behave in consonance with its financial and non-financial objectives. (0)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 9/3

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Economic Analysis of Life Cycle Military Manpower Maintenance and Training Requirements in Avionics Minicomputer and Microcomputer Systems.

DESCRIPTIVE NOTE: Master's thesis,
MAR 78 66P Genoveso,Dennis Harry;

UNCLASSIFIED REPORT

DESCRIPTORS: \*'ife cycle costs, \*Avionics, Maintenance, Military training, Microsomputers, Minicomputers, Naval training IDEN(IFIFRS: Federated computer system, Consolidated computer system (U)

The dramatic advances within the electronics The dramatic advances within the electrolics industry over the last few decades have brought about several equally effective computer design alternatives for use in military avionics systems. This report is an attempt to examine the maintenance personnel and training Life Cycle Costs associated with three of these alternatives; (1) Consolidated Mission Computer. (2) (3) Federated Homogeneous Computer System, and (3) Federated Hoterogeneous Computer (3) Federated Heterogeneous Computer
System. The computations indicate that the
Federated Homogeneous System is the most cost
effective alternative. This report is intended as
an input to the research being conducted by LCDR
James Buttinger and Associate Professor Uno
Kodres for the Naval Weapons Center, China
Lake, titled A Study of Alternatives for
VSTOL Computer Systems. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A052 400

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DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA

Cost Effective Analysis.

(11)

DESCRIPTIVE NOTE: Report bibliography Jul 73-Apr 77.

APR 78 441P
REPI. NO. DEC/BIB-78/01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. DDC-TAS-75-8, AD-A010 400. See also report dated Mar 72. AD-738 800 and report dated Nov 73. AD-771 705. DESCRIPTORS: \*Cost effectiveness. \*Costs. \*Bibliographies. Cost estimates. Cost analysis. Economics. Management planning and control. Decision making, Logistics planning, Government procurement. Trade off analyses

This bibliography contains unclassified-unlimited citations on Cost Effectiveness Analysis. These Citations emphasize program evaluations. management techniques, research and development decision making, management problems, tradeoffs, related cost analysis and methodology, and systems value engineering. The four computer-generated indexes provided are Corporate Author-Monitoring Agency, Subject, Title and Personal Author, (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A051 737

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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Construction-Site Noise Control Cost-

(11)

JAN 78 35P Kessler,F. M.; Schomer,P. D.; Chanaud,R. C.; Rosendahi,R.; REPT. NO. CERL-IR-N-36 PROJ: 44762720AB96

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Noise reduction, \*Cost estimates, \*Construction equipment, Sound pressure, Barriers, Specifications, Sites, Backfills, Trenching, Earth handling equipment, Substitutes, Foundations(Structures), Modification, Concrete, Plywood IDENTIFIERS: PE62720A, AS896 (U) (U)

This report aids the U.S. Army Corps of Engineers construction cost estimator in determining the level of noise generated at construction sites, in comparing this level with Corps of Engineers criteria, and in estimating costs to a contractor of reducing the noise. A companion report, Construction-Site Noise Control-Cost-Benefit Estimation Technical Background, Technical Report N-37 (U.S. Army Construction Engineering Research laboratory (CERL), January 1978), Contains the rationale and data supporting this report. (Author) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO

A Performance-Contingent Reward System That Uses Economic Incentives; Preliminary Cost-Effectiveness Analysis.

(U)

DESCRIPTIVE NOTE: Interim rept. Jul 76-Apr 77.
FEB 78 59P Bretton.Gene E.:Dockstader.
Steven L.:Nebeker.Delbert M.:Shumete.E. Steven C. Chandler: The ND. NPPDC-TR-78-13

REPT. NO. NP PROJ: F55521 TASK: ZF56521018

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Government employees. \*Motivation. Salaries, Axards, Performance(Human), Optimization, Productivity, Forecasting, Cost effectivers; Efficiency, Quality, Operators(Personnel), Office personnel, Keyboards, Data transmission systems, Management information systems
IDENTIFIERS: Bonuses. PRCS(Performance

Contingent Reward System). Performance Contingent Reward System. Incentive wages. PE62763N. WUZF555210180302

(U)

(11)

The cost-effectiveness. cost-savings projections. and related issues of a Performance-Contingent Reward System (PCRS) that uses economic incentives were evaluated. The PCRS was tested on federal civil service data transcribers in the Management Information System Department of the Long Beach Naval Shippard (LBNSY). the Long Beach Naval Shipyard (LBNSY). Evaluation of the PCRS was conducted primarily from the following perspectives: (1) The Cost-effectiveness of the proposed PCRS relative to former production conditions at the test site: (2) Issues involving the generalizability of the test-site results to other Navy activities with substantial Concentrations of data transcribers: and (3) Projections of PCRS-induced cost savings in terms of specified outvears, levels of aggregation (3) Projections of PCKS-induced cost savings in terms of specified outyears, levels of aggregation of data transcribers, and levels of generalizability of test-site results. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A050 813 13/3 20/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Construction-Site Noise Control Cost-Benefit Estimation Technical Background. (U)

DESCRIPTIVE NOTE: Final rept.,

JAN 78 105P Kessler,Fred M.; Schomer,
Paul D.; Chanaud ,Robert C.; Rosendahl, Eugene REPT. NO. CERL-TR-N-37

# UNCLASSIFIED REPORT

Availability: Microfiche copies only.

DESCRIPTORS: \*Construction equipment, \*Noise reduction, Sites, Machinery noise, Noise pollution, Control systems, Cost effectiveness.

Cost estimates, Technology transfer, Mathematical models, Computerized simulation, Data acquisition. Schedul ina

Presented are methods of estimating noise level at a Construction site, methods of noise reduction and control at a construction site, and the associated costs for this reduction with the emphasis on equipment noise control. (Author) (U)

## UNCLASSIFIED

DDC REPORT BIBLIOGPAPHY SEARCH CONTROL NO. ZOMOT

16/4.2 5/1 AD-A050 588

ARING RESEARCH CORP ANNAPOLIS MD

LCC/DTC Tasks Conducted for MX Weapon System Program.

LESCRIPTIVE NOTE: Summary rept. Oct 76-Jan 78.

JAN 78 16P Buchanan.H. N.: Nelson.R.
R. ;Sohaefer.J. N.: Sweet.D. E.:
REPT. NO. 1953-03-2-1692
CONTRACT: F04606-76-A-0087

# UNCLASSIFIED REPORT

DESCRIFTORS: \*Surface to surface missiles.
\*Strategic \*eapons. \*Life cycle costs. \*Design to cost. Cost models. Computer programs. Logistics support. Guided missile silos. Trenching. Underground structures. Hardened structures. Logistics management. Logistics planning. Algorithms. Data bases IDENTIFIERS: MX missiles

(U) (11)

Tasks Conducted by ARINC Research Corporation related to life cycle cost/design-to-cost support of the MX keapon System are described. (U)

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DDC RE ORT BIBLIOGRAPHY SEARCH CONTPOL NO. ZOMO7

AD-A050 224

9/2

WASHINGTON UNIV SEATTLE DEPT OF CHEMISTRY

A Low-Cost, General Purpose Data Acquisition and Control System for the PDP-11 Minicomputer.

DESCRIPTIVE NOTE: Technical rept., FEB 78 23° Danielson.J. D. S. ;Brown. Steven D. ;Appellof,Carl J. ;Kowalski,B. R.

REPT. NO.

CONTRACT: N00014-75-C-0536

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Minicomputers, \*Data acquisition, \*Control systems, Man computer interface, Computer programs, Fortran, Input output processing, Low costs, Registers(Circuits), Multiplexing, Analog to digital converters
IDENTIFIERS: PDP-11 computers, Computer program \*passeforshiller, WINDOSISES (U)

transferability, WUNR051565 (6)

A general-purpose interface for the PDP-11 family of minicomputers is described. The interface, oriented towards laboratory data-acquisition and experimental control applications, can be built in a relatively short time with low materials costs. A general purpose, FORTRAN-compatible software package capable of driving the interface is also discussed. (Author) (U)

### UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A049 976

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5/2

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS

A Computerized Log for Systems and Cost Analysis Division Cost Estimate Control Data Center (CECDC) Validation Activity.

(U)

(U)

DESCRIPTIVE NOTE: Final rept..

JAN 78 24P Ragan.Joanne A.:
REPT. NO. USAAVRADCOM-TR-78-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Information processing. \*Cost analysis. \*Control. Computer applications. Cost estimates. Validation. Weapon systems. Mulitary procurement. Systems approach. Computer programming. Flow charting

Responsibility for validating and/or reviewing documents containing cost estimates has been assigned to the CECDC function of DRDAV-BC. In order to utilize the speed and accuracy available with automatic data processing, a computer program has been developed to process the appropriate information from these documents, to aid in preparation of the necessary reports and to provide a historical log of the documents which have been processed. The logging procedure includes portions accomplished manually as well as the portion produced by the computer. After a document has been validated (or rejected) by a CECDC analyst, specific information is logged before the document is returned to the proponent. Periodically, these records are key punched onto IBM punch cards, which are then processed by the IBM 360/65 computer using the specially designed Computerized Log Program. Within the computer, data records are sorted by allocated systems and are then processed. Within the computer, data records are sorted by aircraft system, and are then printed out in group arrangement according to type of validation, aircraft

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AD-A049 976

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A049 940 17/2 17/2.1 22/2

MATHEMATICA INC PRINCETON N J MATHTECH DIV

A Cost Effectiveness Analysis of the Naval Modular Automated Communications System (NAVWACS).

DESCRIPTIVE NOTE: Final reot. 1 May-30 Sep 77.

JAN 78 252P Agnew.Carson E. :Lanen. JAN 78 252P Ag William N.; CONTRACT: N00014-77-C-0049

WONITOR: ONR 7162-FR1

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Communication terminals, Radio broadcasting, Modular construction, Message processing, Automation, Shipboarc. Communications networks, High frequency, Teletype systems, Ultrahigh frequency, Printers(Data processing), Communication satellites, Cost effectiveness (U) IDENTIFIERS: Emergency communications. Satellite communications, WUNRQ23004 (U)

This report presents an analysis of the dayy's Afloat Message Communications System, as it will be affected by the Naval Modular Automated Communications System (NAVMACS) Program. Our objective in this analysis has been to assess the impact that alternative decisions concerning the NAVMACS program and its implementation will have on communications costs and effectiveness. (8) (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

1/3 15/5 5/3

ARMY TROOP SUPPORT AND AVIATION MATERIEL READINESS COMMAND ST LOUIS MO

Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army

Aircraft).

DESCRIPTIVE NOTE: Final rept..

JAN 78 68P Gille.Warren H. . Jr:
REPT. NO. TSARCOM-TR-77-4

## UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SCRIPTORS: \*Army aircraft. \*Army procurement. DESCRIPTORS: DESCRIPTORS: \*Army aircraft. \*Army procurement.
\*Inflation(Economics). \*Computer programs.
\*Cost analysis. Cost estimates. Indexes.
Airframes. Aircraft engines. Avionics. Models.
Methodology. Computerized simulation. Time series analysis. Computations. History. Economics
IDENTIFIERS: Historical Inflation Computer (U) (U) Program

This report extends and revises Technical This report extends and revises Technical Report 76-18 which presents and describes the Historical Inflation Program, a computerized program generating historical inflation indices for the procurement of Army aircraft. The program can be updated monthly, is easily revised for changes in Bureau of Labor Statistics methods, and capable of handling data for all fiscal year formats. Output is expressed as monthly, quarterly, calendar year inflation indices (in Calendar Year 1967 base) and inflation factors (in any Fiscal Year base). This report contains updated tables of inflation factors, expressed in a FY 77 base. These indices and factors provide a means of adjusting historical cost data for the procurement of Army aircraft to constant year dollars. Additional features include: Computations for the Derivation of Revised Weighting Factors. detailed indices enabling the adjustment of historical Labor and Material Cost separately. A discussion of aggregate weighting factors for Labor and Materials, including trends from sensitivity analysis, and a more complete explanation, and additional documentation, aimed at making the report more useful to a larger cross section of the DOD (U)

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AD-A049 847

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

9/2 5/1 5/2

GEORGIA INST OF TECH ATLANTA COLL OF INDUSTRIAL MANAGEMENT

The Pricing of Computer Services: A (II) Bibliography.

DESCRIPTIVE NOTE: Final rept..

JAN 78 68P Hamilton.Kenneth L.;
REPT. NO. GIT-MS-78-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer applications, \*Data processing.' \*Costs, \*Bibliographies, Economics, Computers, Accounting, Indexes, Management planning and control, Facilities, Management information systems, Allocations, Budgets (U)

This Dibliography consists of references to the literature on pricing of computer services. A table of contents provides indexing of the bibliography on the bases of authors, editors, titles, etc., with cross references to the original entry. The bibliography will be revised at a later date to include classification according to content along with additional continual approximations and abstracts. with additional critical annotations and abstracts.

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 761 5/9 5/3

AIR FOLCE HUMAN RESOURCES LAB BROOKS AFB TEX

USAF Military Personnel Costing: Problems and Approaches.

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DESCRIPTIVE NOTE: Final rept. Jun 73-Dec 76.
AUG 77 54P Baran.H. Anthony: AUG 77 54P Baran.H. Anthony: REPT. NO. AFARL-TR-77-39 PROJ: 1124 TASK: 03

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force personnel. \*Cost analysis. Cost estimates. Accounting, Human resources. Guides, Aliccations. Life cycle costs. User needs, Missions. Standardization, Job training. Fringe benefits. Retirement(Personnel). Medical services. Billets(Personnel)
IDENTIFIERS: PE62703F. WUAFHRL11240306

This report attempts to identify the most pressing Air Force military personnel costing problems and to specify the prerequisite needs of Air Force Cost analysts in order to solve them. A survey was made to identify costing approaches and techniques to satisfy the needs. These were then examined to assess their utility in developing standardized costing techniques and standard cost parameters for Air Force military personnel. The examination revealed ways in which planned application restricts the choice of methods, and the existence of widespread disagreements concerning basic definitions and objectives. and objectives.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 674

9/2 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO

A Quantitative Analysis of Estimating Accuracy in Software Development.

(11)

DESCRIPTIVE NOTE: Doctoral thesis, AUG 76 191P Geneing,Ph REPT. NO. AF11-CI-77-28 Gehring, Philip Francis . dr;

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer program verification, \*Cost DESCRIPTORS: \*Computer program verification, estimates. \*Experimental design. Assessment, Accuracy, Estimates. Models, Management engineering, Cost analysis, Automation. Data processing, Requirements, Literature surveys, Theses, Standardization
IDENTIFIERS: \*Project management (U)

This research quantitatively examines the estimating accuracy or over 5000 standardized resource consuming activities from 39 software development projects of various size. The activity data pertaining to planned hour estimates and actual expenditures were collected by an automated project management system (PARMIS) as the data were generated. The dissertation hypothesizes that specific activities can be isolated which generated. The dissertation hypothesizes that specific activities can be isolated which consistently have a greater influence on whether a software development project will be successful in terms of cost and schedule estimates. The arithmetic and percent differences between estimated and observed hour expenditures are the elementary variables used to investigate estimating accuracy. Various summarizing and statistical techniques are employed to reveal the information inherent in the data, and to identify, if possible, a correlation batween the selected activities and the final difference between the total hours estimates and expended for the project. The findings from the expended for the project. The findings from the data source used clearly suprort the hypothesis. However, no correlation was found between the activities which have the most influence on estimating accuracy in a software development project and other criteria such as the total project difference. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-3047 667

21/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Development of Cost Estimating Relationships for Aircraft Jet Core-Engine Overhaul

(11)

DESCRIPTIVE NOTE: Master's thesis.
SEP 77 160P Breglio.Robert A. . Jr.: SEP 77 160P Wright, Richard F. : REPT. NO. AFIT-LSSR-31-77B

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Jet engines. \*Cost estimates. \*Life cycle costs. \*Aircraft maintenance. Regression analysis. Mathematical models. Operation. Parameters. Costs. Maintenance. Turbojet engines. Turbofan engines. Aircraft engines. IDENTIFIERS: Core engines

Cost estimation is a wide open area within the Department of Defense and accurate cost estimating models are a valuable tool in the life cycle costing of a weapon system. This research effort utilized multiple linear regression analysis to develop parametric cost models or cost estimating relationships (CERs) for jet engine depot relationships (CERS) for jet engine depot overhaul costs. Both engine operating parameters. e.g., turbine inlet temperature, RPM, etc., and engine physical characteristics, e.g., length, weight etc., were considered as probable cost drivers. Extensive analysis was performed to determine the reliability of the data base. The major finding of this cost was that models are the development with this study was that models can be developed with acceptable explanatory power. with respect to acceptable explanatory power. with respect to variation in the data base, using data of questionable reliability. Thus, a model developed should not be accepted on the basis of explanatory power alone but should be tested further to determine

its utility as a cost estimator. (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

14/1 15/5 5/9

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Analysis of Graduate Education in Logistics Management.

DESCRIPTIVE NOTE: Master's thesis SEP 77 136P Ha
Dennis A.;
REPT. NO. AFIT-LSSR-16-77B Haynes, Ralph R. : Williamson.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Logistics management.
\*Courses(Education), \*Cost analysis,
Graduates, Wilitary training, Air Force
personnel, Costs, Education, Universities,
Surveys, Requirements, Research management,
Comparison, Theses

The purpose of this thesis was to Compare the full The purpose of this thesis was to compare the full cost to the Air Force for providing an officer with a Master of Science degree in Logistics Management from AFIT with the full cost of a similar degree from a civilian institution. Graduate logistics programs of twelve universities were evaluated to determine if their graduate degree requirements were similar to AFIT resident program requirements; the requirements of four universities were found to be similar. Elements of cost necessary to make a comparative cost analysis were identified and defined. The elements were subdivided into three categories to facilitate cost comparison and to more readily identify the areas of subdivided into three Categories to facilitate cost comparison and to more readily identify the areas of greatest cost. The three categories were direct and indirect costs of education and pay and allowances. The average monetary value of each element of Cost was determined. Then an analysis of the total cost of each program was performed. The authors concluded that pay and allowances are the most sensitive element of cost and that the AFIT resident program was the least expensive. (Author) (U) (Author)

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DDC REPORT BIBLINGRAPHY SEARCH CONTROL NO. ZOMOT

15/5 AD-A047 640

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Aircraft Maintenance Cost Elements.

(U)

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DESCRIPTIVE NOTE: Master's thesis. McCarty, Denyl S. : Moore. SEP 77 228P Ronald L. REPT. NO. AFIT-LSSR-17-778

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft maintenance. \*Cost analysis. -Maintenance management Management planning and control, Costs. Cost effectiveness. Military requirements. Cost models. Scheduling. Maintenance personnel. Accounting. Accountability. Theses IDENTIFIERS: Cost accounting

The Department of Defense Management by Objective 9-2 required that all services develop a non-duplicative. inexpensive aircraft maintenance cost accounting system that would provide a data base for determining downstream aircraft life cycle costs. To date, no USAF accounting system has fulfilled these requirements. To develop a comprehensive accounting system that does meet MBO criteria accounting system that does meet MBD criteria requires that a new accounting system be developed based on an extensive three-phase research program. The three phases include: (1) to identify the maintenance cost elements in use. (2) to identify which of these elements are needed by Air Force managers, and (3) to determine which of Force managers, and (3) to determine which of these needed elements provide the most information at the least cost. This study starts this three-phase research by determining what maintenance costs elements are currently costed by civilian and military maintenance organizations. This was accomplished through a review of civilian and military sincraft maintenance cost accounting publications using the technique of semantic content analysis. The results of this analysis provided a 'core list' of 'in-use' aircraft maintenance cost elements and recording techniques. From this core elements and recording techniques. From this core list. the next research phase--identification of AF Cost element needs--can be inaugurated. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 10M07

AD-A047 634

15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AF3 OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analytical View of Advance Incentivized Overhead Agreements in the Defense (u) Industry.

DESCRIPTIVE NOTE: Master's thesis. SEP 77 179P Lynch, Patrick J. ; Pace.

REPT. NO. AFIT-LSSR-14-77B

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air force procurement, \*Indirect costs, \*Contract administration, Agreements, Cost analysis, Cost overruns, Profits, Management planning and control, Incentive Contracts, Department of Defense, Wonitoring, Contracts. Vendors, Theses
IDENTIFIERS: \*Overhead costs (U)

Overhead costs constitute a substantial portion of the DDD dollars spent in the procurement of defense systems. Therefore, overhead control has become an systems. Therefore, overhead control has become an area of special concern to government contract managers. Previous attempts to negotiate an advance agreement on total overhead costs have been unsuccessful due to a number of factors. This study examined those factors and another step in the evolution of advance agreement theory. This step involves the application of a sharing arrangement to underruns or overruns of the advance agreement target expenditure levels. In this study the authors outline the strengths and weaknesses of the current government overhead monitoring process, provide a basic structure for an advance incentivized overhead agreement and present the advantages and shortcomings of using such an agreement. The authors conclude that utilization of an advance incentivized overhead agreement will improve the current overhead agreement will improve the current overhead agreement will improve the current overniad monitoring process by establishing goal Congruency between contractor profit and government cost goals and by facilitating the communication of government cost objectives to defense contractors.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A047 391 5/9

14/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

5/1

The RDT and E Program of the DoD on Training, FY 1977. (8)

DESCRIPTIVE NOTE: Final rept. Apr 76-Jul ?7.

JUL 77 85P Or REPT. NO. F-1270 CONTRACT: DAHC15-73-C-020C 85P Orlansky.Jesse :

MONITOR: IDA/HQ.SBIE 77-19304.AD-E500 007

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Military training. \*Research management. \*Cost effectiveness. Teaching methods. Assessment. Cost analysis. Resource management. Computer aided instruction. Flight simulation. Military exercises. War games. Training devices. Flight simulators. Performance(Human). Test and evaluation. Allocations

IDENTIFIERS: \*Training management. Research and (11) development

This paper identifies the RDT and E program of the DoD on military training for FY 1977. An analysis of work units shows that the areas of analysis of work units shows that the areas of training which receive major attention are the development and evaluation of flight simulators (all services, with the Air Force expending most funds), engagement simulation of battlefield activities (Army) and computermassisted instruction (Navy, Air Force, and DARPA). Lesser efforts are expended on performance measurement in training and on cost-effectiveness studies of training. This analysis is part of an overall study to evaluate methods and data weeful overall study to evaluate methods and data useful for determining the cost and effectiveness of alternative ways of training military personnel. Particular attention is directed in the study to the use of attention is directed in the Study to the use of flight simulators, training devices, computer-assisted instruction and methods of training, R and D activities are identified in this paper to define the nature and scope of current research efforts directed to major areas of training.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 5/3

AD-A047 378

5/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA COST ANALYSIS

Contractor Initiatives for Reliability, Maintainability, and Cost Improvement.

(U)

DESCRIPTIVE NOTE: Final rept..
SEP 77 41P Weimer

SEP 77 41P Weimen.C. David; REPT. NO. P-1291 MONITOR: IDA/HC.SBIE 77-19708.AD-E500 010

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Management engineering, \*Costs, Production, Life cycles, Reliability, Maintainability, Electronic equipment, Data acquisition, Contract administration, Design to acquisition, Contract action, besign to cost, Life Cycle Costs,
Reliability(Electronics), Military procurement.
Policies, Regulations, Guarantees, Industrial production, Performance
IDENTIFIERS: Contractors (U) (U)

This paper presents a Syr hesis of major findings and conclusions derived from four years of research in electronics subsystem acquisition. Department of Defense policy Statements for achieving improved reliability, maintainability, and cost are reviewed. The application and implementation of these policies are examined and the management response of policies are examined and the management response of system and subsystem contractors is described in areas of operating policies and procedures. project organization, cost Lanagement and control, and development program planning. The Contractor experiences during their engineering development programs are subsequently evaluated in terms of operating problems or policy barriers. In total, the experiences of 42 Contractors responding in 25 separate programs are examined and analyzed. Based upon their past experiences and management behavior. upon their past experiences and management behavior. the appropriate response to successfully embrace future policy initiatives is postulated. (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07 10/3

AD-A047 356

9/2

4/2 14/1

JET PROPULSION LAB PASADENA CALIF

Computer Program for Design and Performance Analysis of Navigation-Aid Power Systems Program Documentation, Volume II - User's Manual.

(U)

DESCRIPTIVE NOTE: final hept.

JUL 77 1039 Cutz.G.:Weiner.H.:

REPT. NO. JPL=5040-27-V0L=2-change=1

MONITOR: USCG.CGR/DC E=11-77-V0L=2.:8/76-V0L=

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also volume 3. AD-A047 542.
DESCRIPTORS: \*Computer program documentation. \*Solar cells. \*Nathematical analysis. \*Cost effectiveness. \*Power supplies. Programming manuals. Input output processing. Solar radiation. Geographical distribution. Variations. Meteorological data. Cloud cover, Feasibility studies. Electric Batteries. Navigational aids (u)

A computer program has been developed for designing and analyzing the performance of solar array/battery power systems for the U. S. Coast Guard Navigational Aids. This program is called the Design Synthesis/Performance Analysis (DSPA) Design Synthesis/Performance Analysis (DSPA)
Computer Program. The basic function of the
Design Synthesis portion of the DSPA program is
to evaluate functional and economic criteria to
Drovide specifications for viable solar array/battery
Dower Systems. The basic function of the
Performance Analysis portion of the DSPA
Program is to simulate the operation of solar array/
battery power systems under specific loads and
environmental conditions. This document provides
all the information necessary to access the DSPA
Programs, to input required data and to generate
appropriate Design Synthesis or Performance
Analysis Output. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-4047 282 14/1 1/3 14/4

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Methodology for Estimating the Economic Benefits of an Aircraft Engine Warranty. (U)

DESCRIPTIVE NOTE: Mast, s thesis, SEP 77 135P Dooley,Mar Richard E.: Dooley Martin P. : Kells. REPT. NO. AFIT-LSSR-10-778

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft engines. \*Guarantaes. \*Cost DESCRIPTIONS: \*Aircraft engines, \*Guarantees, \*Co: benefits, Life cycle costs, Savings, Cost estimates, Reliability, Components, Mathematical models, Computer programs, Theses IDENTIFIERS: Warranties (U)

Aircraft engine warranties are used extensively in the commercia: airlines industry. If the the commercia: airlines industry. If the Department of Defense hopes to use warranties as a method of reducing engine life cycle costs, the custs and benefits of each warranty must be carefully analyzed. The methodology developed in this study provides framework to assist analysts in estimating the economic benefits of an engine warranty. A test application of the methodology details the Denefits of a hypothetical DOD engine warranty, and includes a sensitivity analysis of the key variables. The study concludes that the basic method can be used to estimate the economic benefits of a widz range of engine and equipment warranties. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-4047 198 5/9 14/1

GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS DIV

Development of Wethods for Analysis of the Cost of Enlisted Attrition.

DESCRIPTIVE NOTE: Final rept. Jun 76-May 77. SEP 77 294P Huck.Daniel F. :Midiam. Kenneth C. :Purcell.Agnes :Sica.Geraldina : Bocast.Alex: REPT. NO. 0\0-CR-197 CONTRACT: NC:014-76-C-0939

## UNCLASSIFIED REPORT

DESCRIPTO 5: \*Enlisted personnel. \*Attrition.
\*Costs. Cost effectiveness. Mathematical models.
Performance(Human). Manpower utilization.
Motivation. Education. Graduates. Cost benefits. Learning curves. Aptitudes. Naval personnel. Vocational guidance. volunteers. Recruits. All volunteer
IDENTIFIERS: Navy all volunteer force

The objectives of this study were to (1) develop cost-effectiveness measures for first-term enlisted personnel integrating attrition, cost and value parameters: (2) compile as complete a data Dase on trese parameters as could be accomplished with the Services' cooperation (but without Creating significant new data systems).
Concentrating on those qualitative or identifying factors that can be known about an individual at the time of enlistment: (3) develop a user-oriented data to the models in an easy-to-use, efficient, and flexible way. Data bases for attrition data for both the Navy and Marine Corps have been compiled. The cost data included here are felt to encompass all significant costs associated with first-term enlistees. The utility functions developed in this study are much more comprehensive than was originally planned because of a realization of the great impact the utility function assumptions have on the cost-effectiveness measures.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A047 181 1/3 14/:

RAND CORP SANTA MONICA CALIF

A Critique of Aircraft Airframe Cost

Models.

DESCRIPTIVE NOTE: Interim rept... Large, J. P. : Gillespie, K.

DESCRIPTIVE NOTE: Interim to SEP 77 61P Lat M. S.; REPT. NO. RAND/R-2194-AF CONTRACT: F49620-77-C-0023

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Companion report to rept. no. RAND/ 2-2196-A1

R-2196-AF.
DESCRIPTORS: \*Airframes. \*Cost models. Cost analysis. Aircraft. Criteria. Parametric analysis. Military planning. Quality control. Experimental design. Aeronautical engineering. Production. Cost estimates. Reliability
IDENTIFIERS: Program management

This document examines a sample of seven aircraft airframe cost models. The intent is to determine whether the model output is reasonable over a broad range of inputs, what limitations should be noted, and where one model might be preferable to the others. The critique shows that all the models have some deficiencies and all should be used with caution. The more recent models appear to be better than the older ones, which may be taken as a sign of progress, but it is plain that more progress is needed. Some of the lessons learned in this review may be helpful in pointing out now the next generation of aircraft airframe cost models could be improved.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A047 167 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Protunement Contracting Officer's Guide to

Cost Accounting Stancards.

DESCRIPTIVE NOTE: SEP 77 140 Waster's thesis. 140P Saderberg.Paul C. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Costs. \*Accounting. \*Government procurement. \*Standards. Contract doministration. Government employees. Specialists. Requirements. dop analysis. History. Cost overruns. Management planning and Control. Accountability. Procurement.

Theses
IDENTIFICES: \*Cost accounting standards. Public lax 91- :79

This thesis is an exploration of the procurement contracting officer's role in implementing and contracting officer's role in implementing and administering Cost Accounting Standards. It introduces the procurement officer to the subject by discussing the history and development of Cost Accounting Standards, the functions of the Cost Accounting Standards, the functions of the Cost Accounting Standards Board, and the methodology utilized by the Department of Defense in implementing Public Law 91-379. The main objective is to define the tasks that Cost Accounting Standards have placed on the procurement officer. By understanding these tasks the procurement officer will better function in the procurement environment. A Current literature spanch was formated to obtain the information procurement environment. A current literature search was conducted to obtain the information contained herein. The reader will not be controuted with technical accounting terms and will need only a basic knowledge of Government procurement to (U) understand the subject matter. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-AC47 126 15,'7 15/5 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Analysis of Wajor Training Area Operations in V Corps. US Army Europe.

DESCRIPTIVE NOTE: Master's thesis, DEP 77 1499 Woore, Michael John : Teesdale, Thomas Voseph .

### UNCLASSI/ IED REPORT

DESCRIPTORS: \*Military training, \*Military operations, \*Scheouling, \*Logistics support, \*Cost analysis, Computer applications, Theater level operations, West Germany, Military forces(United States), Military planning, Military transportation, Computer programs, Programming manuals, Theses

This thesis presents the results of applying operations research to V Gorps' Vajor Training Area (MTA) operations in the Federal Republic of Germany. The study examines three aspects of these MTA operations: the movement of tracked vahicles to training sites; the prediction and allocation of supply costs associated with MTAs and the scheduling of WTA operations. The thesis concentrates on develocing methodologies which are immediately implementable by V Corps and which will assist the Corps commander and his staff in their efforts to solve problems in these three areas. The thesis develops a computer assisted concenting system with a usen's guide, and sets forth STA movement costs and aspects of STA supply costs for consideration by the commander and his staff in the decision making process. (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20507

AD-A047 103 12/2 3/3

CORNELL UNIVITHACA N Y SCHOOL OF SPERATIONS RESEARCH AND INDUSTRIAL ENGINEEPING

Internal Telephone Stiling Rates - A Nove: Application of Applatopic Game Treony.

::c Game (:

DESCRIPTIVE NOTE: Technical rept..

APR 77 19P Sillerallouis J. IMeath.
David C. IRaanan.Joseph :

REPT. NO. 19-331
CONTRACT: NCC014-75-C-0578. NSF-MPS-75-02024

## UNCLASSIFIED REPORT

DESCRIPTORS: "Game theory, «Costs, Rates, Allocations, User need), Public utilities, Telephone systems, Scheduling, Distribution(Economics), Mathematical programming | IDENTIFIERS: \*Billing, Nonatomic dames

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The problem of determining rates is considered for a situation in which services are purchased in bulk. But they have to be paid for by a large number of small users. The desired rates must be 'fair' and they must cover all costs. The problem is formulated as a non-matteric game and solved by using the value of the game. In addition to the general problem, a detailed actual case is presented together with computational methods and results.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 70M07

13/10 AD-A046 978 15/5

INTERNATIONAL MARITIME ASSOCIATES INC WASHINGTON DC

A Study of Ship Acquisition Cost Est, sting in the Naval Sea Systems (U) Command. Appendices.

Final rept. DESCRIPTIVE NOTE: OCT 77 1298P CONTRACT: N00024-77-C-2013

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Appendices to report dated 28 Oct 77, AD-A046 977. See also AD-A046 976.
DESCRIPTORS: \*Naval vessels. \*Naval procurement, DESCRIPTORS: \*Naval vessels. \*Naval procurement,
\*Cost estimates, \*Shipbuilding, Cost analysis.
Inflation(Economics). Labor. Materials,
dapan, Sweden, Merchant vessels.
Sizes(Dimensions), USTR, Nuclear powered
submarines. Aircraft carriers, Shipyards, Cost
overruns, Scheduling, Delivery, \*Loufication,
Aircraft, Guided missiles, Sonar equipment, Fire co real systems, Weapon systems
IDE: Inters: Overhead, Cost monitoring, General Accounting Office, Close in weapon system (U) CID

This section of the report provides an overview of the shipbuilding industry, placing into perspective the cost problems experienced in naval ship construction. It describes the nature of the industry and its problems, emphasizing: The concentration of the industry as reflected by an increasingly limited number of shipbuilders: The sudden, erratic movement in labor and material cost that has impacted shipbuilders worldwide: That NAVSEA's inability to accurately estimate costs in the recent environment is shared by shipbuilders in the U.S. and other countries; and General background data is also provided for reference purposes in understanding the environment within which NAVSEA must estimate future ship construction costs. (Author) This section of the report provides an overview of costs. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A046 977 14/1 13/10 15/5

INTERNATIONAL MARITIME ASSOCIATES INC WASHINGTON DC

Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command.

DESCRIPTIVE NGTE: final rept.

OCT 77 468P CONTRACT: N00024-/7-C-2013

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendices dated Oct 77. AD-AD45 978 and AD-AC46 976. u=SCRIPTORS: \*Naval vessels. \*Naval procurement. \*Cost estimates. \*Shipbuilding. Cost analysis. Radar equipment. Fire control systems. Sonar equipment. Nuclear Dowered submarines. Labor. USSR, Inflation(Economics), Japan. Environmental protection Minorities, Snipyards. Industries, Naval av.ation, Naval shore facilities, Wodels, Performance (Human). Floating docks. Drydocks. Budgets

This is a report about cost estimating in naval procurement and the ability of Navy estimators. particularly in the Naval Sea Systems Command, to adequately forecast required program funding. It is also an attempt to carefully ascertain where improvements can be made. It is recognized that the cost estimating problem is extremely complex and, if all possible, improvements should be made. Obviously, the national interest is at the heart of the matter. It is believed that specific action can be taken by NAVSEA to improve its capability and inasmuch as NAVSEA to improve its capability and inasmuch as other government and industrial organizations interact in procurement activities so profoundly. areas are pointed to where NAVSEA may want to funcist complementary actions by organizations Gutside its control.

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AD-A046 976 14/1 13/10 15/5 5/3

INTERNATIONAL MARITIME ASSOCIATES INC WASHINGTON DC

A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Executive Summary.

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OCT 77 58P CONTRACT: N00024-77-C-2013

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A046 977 and AD-A046 978.
DESCRIPTORS: \*Naval vessels, \*Naval procurement, \*Cost estimates, \*Snipbuilding, Cost overruns. Inflation(Economics), Materials, Labor, Social welfare, Productivity, Labor unions, Cost analysis, Structures, Auxiliary, Weapon systems, Propulsion system components, Surveillance, Integrated systems, Army procurement, Computer applications, Industries, Nuclear powered submarines, Profits

This is a report about cost estimating in naval procurement and the ability of Navy estimators, particularly in the Naval Sea Systems Command, to adequately forecast required program funding for ship construction and conversion. It is also an attempt to carefully ascertain where improvements can be made. It is recognized that the cost estimating problem is extremely complex and. If at all possible, improvements should be made. Obviously, the national interest is at the heart of the matter. It is believed that specific action can be taken by NAVSEA to improve its capability and inasmuch as other government and industrial organizations interact in procurement activities so profoundly, areas are pointed to where NAVSEA may want to suggest complementary actions by organizations outside its control. This document is a summary of a much longer Final Report which examines these important issues in depth. To the extent a short summary can analyze complex problems and outline proposed solutions, this document addresses that objective. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEAPCH CONTROL NO. ZONOT

AD-A046 829 17/9 1/5

TRANSPORTATION SYSTEMS CENTER CAMERIDGE MASS

Preliminary Limited Surveillance Radar (LSR) Cost/Benefit Analysis.

DESCRIPTIVE NOTE: final rep., Dec 76-Apr 77. CC1 77 52P Remofer Paul S.: REPT. NO. TSC~7AA-77-16 MONITOR: FAA-ASP 77-10

UNCLASSIFIED REPORT

DESCRIPTORS: \*Search radar. \*Cost banefits.

\*Airport radar systems. Short range(Distance).
Air traffic control systems. Air traffic control system analysis, Costs

IDENTIFIERS: Limited surveillance radar This report presents the findings of a cost/benefit

ar sis of the deployment of a new Limited Survillance Radar (LSR). An LSR is an inexpensive, single channel, short-range (about 20 miles), primary radar for use at apricach control facilities which cannot economically justify an Airport Surveillance Radar/Radar Beacon System (ASR/RBS). An LSR can also be used in tower cabs to aid in VFR operation where a BRITE display is not feasible due to coverage limitations dictated by obstructions or distance from the parent radar facility. The study is preliminary in that it is brief and uses rough estimates and assumptions for both benefits and costs. Its purpose is to give a gross satimate of the current deployment potential of the LSR and to aid in decisions regarding further system analysis. development, and testing. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 6/5

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AD-A046 810 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO

(U) The Cost of Caring.

DESCRIPTIVE NOTE: Master's thesis.
AUG 77 192P Hopkins,Doran
McMillen,Philip H. ;Mahr,Thomas A. ; Hopkins, Doran L. ; REPT. NO. AFIT-C1-77-82

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Audiovisual aids. \*Public relations. \*Medical services. Costs, Information transfer. Mass media, Photographs, Community relations. Medical personnel, Colorado, Theses (U)

The Arapahoe Medica, Society (AMS) of The Arapance Medical Society (AMS) of Denver, Colo. approached the Dept. of Mass Communications, university of Denver, concerning the feasibility of a sound synchronized slide show to serve as a vehicle to inform the slide show to serve as a vehicle to inform the community about rising medical costs. The AMS Public Relations Committee requested that the slide show be designed for a cross section of the community, since they intended to present it to various civic organizations. In addition, they wanted the show presented to school audiences, elected government officials, and members of the electronic and print media. The authors recommended a 12-15 minute slide show that would be general in content and be used as part of a speaker's bureau program. This thesis describes their work in producing the slide show entitled: The Cost of Caring. Text of the script is included. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A046 808 9/2 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Preliminary Calibration of the RCA Price 5 Software Cost Estimation Model.

DESCRIPTIVE NOTE: Master's thesis. SEP 77 110P Schneider.John . IV: REPT. NO. AFIT/GSM/SM/77S-15

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programming. \*Input. \*Cost estimates, Data acquisition. Parameters. Avionics. Mathematical models. Systems analysis. Interfaces. Real time, On line systems. Calibration.

Theses
IDENTIFIERS: PRICE S software cost estimate model. (U) (U)

Each year, the Department of Defense spends more than three billion dollars on computer software. yet software managers are notoriously unable to predict the cost of software development projects. This is especially true of preliminary cost estimates made during the formative stages of a project. Even when parametric relationships are used, such estimates depend neavily on anology with previously developed systems. The purpose of this research is to investigate ways of gathering and Using descriptive data for the purpose of making preliminary coftware cost estimates. A methodology for the collection of descriptive information on software systems was developed and used to describe several avionics software systems. The data thus gathered was then used to 'calibrate' the PRICE: yathered as then used to carribate the FRICE's software cost estimation model by relating particular values of several 'subjective' PRICE S input parameters to the observed software system data. It was found that certain characteristics of software systems could be objectively measured, and that the PRICE S model is not incompatible with avionics software systems developed for the Aeronautical Systems Division of Air Force Systems Command. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOZ

AD-A046 586

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JOINT CONVENTIONAL AMMUNITION PROGRAM COORDINATING GROUP ROCK ISLAND IL DECISION MODELS DIRECTORATE

Analysts' Manual for the Multiple-Bid Evaluation Model for Procurement Planning and (11) Placement.

DESCRIPTIVE NOTE: Final rept. fy 1976-1977, NOV 77 66P Todaro, John B. ; Robinson, NOV 77 George B. : REPT. NO. JCAP-DM-1710

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A043 844. SUPPLEMENTARY NOTE: See also AD-A043 844.

DESCRIPTORS: \*Army procurement, \*Cost analysis, \*Ammunition, Dynamic programming, Logistics management, Contracts, Selection, Assessment, Allocations, Decision making, Multimode, Computerized simulation, Costs, Ranking, Computer program documentation, Mathematical models, Flow charting, Programming manuals, Army equipment, Military requirements, Logistics planning, Management information systems, Operations research (U) Bids, MBEM computer program, Bid evaluation (U)

This report documents the Multiple-Bid Evaluation Model (MBEM) as adapted and used by the JCAP Production and Mobilization Planning Division. The model uses dynamic programming to conduct bid analyses for selection of a combination conduct bid analyses for selection of a combination of suppliers to be awarded portions of a total contract. These analyses include the finding of least cost and next least cost solutions for the total requirement and for fractions of the total requirement. In the case of Procuring a single item for a single buy period, the model can also find least and next least costs for each possible number of suppliers. This additional analysis anables management to evaluate the costs of using additional suppliers in order to have a broader production base. The model consists of four independent computer programs for the following situations: (1) a single buy period and a single type item; (2) single buy period and a single type item; (2) two buy periods, or two items for one buy period; (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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HUGHES HELICOPTERS CULVER CITY CALIF

Flight Test of a Composite Multi-Tubular Spar Main Rotor Blade on the AH-1G Helicopter. Volume II. Cost Estimates and Process Specifications.

(11)

DESCRIPTIVE NOTE: Final rept. Jun 74-Jan 77.
AUG 77 79P Head.Robert E.:
REPT. NO. rd-76-281-Vol-2
CONTRACT: DAAJ02-74-C-0055 PROJ: 1F263211DB41 TASK: 00 MONITOR: USAAMRDL TR-77-198

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A046 DESCRIPTORS: \*Rotor blades. \*Helicopter rotors. \*Composite materials, \*Cost estimates. Tubular structures. Spars. Filament wound construction. Industrial production. Production rate. Specifications, Tools, Flight testing, Labor. Manhours. Military requirements. Standards. Radar cross sections IDENTIFIERS: \*AH-1G aircraft, PE63211A, ASB41, WU003

(U) (0)

The objectives of this program were to design a The objectives of this program were to design a composite rain rotor blade in the multi-tubular spar configuration to be directly interchangeable (in pairs) with the production metal (540) blades on the AH-IG helicopter, have increased fatique life, invulnerability to the 23mm ballistic threat. low radar cross section, and low fabrication cost. Manufacturing technology was developed and described in a Process Specification. Laboratory, ground, and flight tests demonstrated that the wet filament wound, co-cured blade met, and that the wet filament wound. co-cured blade met. and in some cases surpassed. all objectives and could be adapted for Army service. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A046 665

15/5 5/3

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FOREIGN TECHNOLOGY DIV WRIGHT-FATTERSON AFB OHIO

Problems of the Improvement of Estimation. Account, Analysis and Forecasting the Prime Cost of Air Transportation.

MAY 77 84P Miros REPT. NO. FTD-ID(RS)T-0627-77 Miroshnikov.A. V. :

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Unedited machine trans. of Trudy. Rizhskogo Krasnoznamennogo Instituta Inzhenerov Grazhdanskoy Aviatsii imeni Leninskogo Komsomola, Riga (USSR) Sb. 7 and 8. Issue 216 p51-87 1972. Text in English: Tables in Russian. DESCRIPTORS: \*Air transportation. \*Costs. Economic analysis, Forecasting, Mathematical models. Cost effectiveness, Equations, Maintenance, Trade off analyses, Aviation personnel, Cargo, Cost analysis, Scheduling, Translations, USSR (U)

Problems of the Improvement of Estimation, Account. Analysis and Forecasting the Prime Cost of Air Transportation-Translation.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A046 621

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ARMY TANK-AUTOMOTIVE MATERIEL READINESS COMMAND WARREN MI SYSTEMS ANALYSIS DIV

Maintenance Expenditure Limits (MEL) Tires.

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DESCRIPTIVE NOTE: Final rept.. AUG 77 22P Kenley.Jack: REPT. NO. TARCOM-SA-71-10

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Tires. \*Cost analysis. \*Cost benefits, Maintenance, Repair, Reclamation, Nondestructive testing, Ultrasonic inspection, Costs, Cost effectiveness, Quality control, Replacement, Ground vehicles, Military vehicles

IAC ACCESSION NUMBER: NT-015511 IAC DOCUMENT TYPE: NTIAC -MICROFICHE-IAC ACCESSION NUMBER: NT-015511
IAC DOCUMENT TYPE: NTIAC -MICROFICHE-The objective of this study was to derive an approach to determine a valid Maintenance Expenditure Limit (MEL) for tires. Historical data and field tests results were examined. Initial data from a Product Assurance test in Ober Product Ass Ramstadt Gremany was also used. It was found that ultrasonic testing of tire carcasses could provide reliable information about the quality of the carcass and its useful remaining life. The reading from the ultrasonic testing device is adjusted so that a new tire reads 50% of full scale. It is estimated that about 22% of the 1100 x 20 tires coming in to be retread are defective based on an coming in to be retread are defective based on an ultrasonic reading of 20% of full scale. If this defective percentage is applied to the top ranking 20 tires (in terms of retread dollars spent) the annual cost savings would be in excess of \$1.000.000. A revised MEL for tires should state that tires be retread. given the carcass has at least one remaining life: the remaining life being determined by pass/fail ultrasonic measurement using the 20% full scale as the standard for now. It is recommended that testing continue to determine the exact correlation between ultrasonic reading and

C SUBJECT TERMS: N--(U)TIRES. MAINTENANCE. COSTS. COST EFFECTIVENESS, REPAIRS. ULTRASONIC INSPECTION. ULTRASONICS. QUALITY CONTROL. MILITARY EQUIPMENT. VEHICLES. IAC SUBJECT TERMS: AD-A046 621

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remaining tire life. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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SOUTHWEST RESEARCH INST SAN ANTONIO TEX ARMY FUELS AND LUBRICANTS RESEARCH LAB

Evaluation of Environmental and Economic Benefits through Use of Synthetic Motor Oils.

(U)

DESCRIPTIVE NOTE: Final rept., PP Tosh,John D. ;Russell,John SEP 77 32P

A. ;! REPT. NO.

AFLRL-91

CONTRACT: DAAG53-75-C-0232

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Lubricating oils. \*Automotive vehicles, \*Cost benefits, \*Environmental management, Drainage, Oil filters, Intervals, Field tests, Maintenance, Specifications, Military requirements, Mineral Oils, Synthetic materials, Crankcases, Test methods, Waste disposal, Operational test and evaluation (U)

Cost and environmental benefits of extended-drain Cost and environmental benefits of extended-drain engine lubrication were evaluated by means of a two-year field program at letterkenny Army Depot. Pennsylvania. Four MIL-L-46152 crankcase lubricants (two mineral and two synthetic-base) were utilized in routine post operation. Each lubricant was assigned to one of four 25-venicle fleets, and each fleet then operated exclusively on that lubricant. During this time there were no engine failures that could be attributed to the extended-drain program. Therefore, it is concluded extended-drain program. Therefore, it is concluded that (a) extended-drain engine operation has potential for both economic and ecological benefits to Army field operations, and (b) the synthetic lubricants employed showed no particular performance advantages over the mineral oils. Consequently, the higher cost of synthetic lubricants would make them less attractive for widespread Army utilization. (Author) (u)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO?

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CENTER FOR NAVAL ANALYSES ARLINGTON VA

Cost-Effectiveness of Potential Federal Policies Affecting Research and Development Expenditures in the Auto. Steel and Food Industries.

(U)

OCT 77 40P Goldberg.Law REPT. NO. CNA-Professional Paper-207 Goldberg.Lawrence :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Industrial research. \*Finance. \*Research management. United States Government. Allocations. Policies. Cost effectiveness. Steel industry. Automotive industry. Food. Economic analysis. Cost estimates. Taxes. Credits. Time series analysis
IDENTIFIERS: Food industry, Research and

(U)

development. Prices. Demand(Economics)

(U)

This paper contains the writer's preliminary analysis of the demand for company financed research and development expenditures (CR/D) in three manufacturing industries. Based upon estimates of the demand for CR/D, he estimated the costs and the demand for CR/D. he estimated the costs and effects of two public policies that could affect R/D expenditures: (1) changes in the level of federally financed R/D expenditures: and (2) changes in the cost of private R/D through tax credits. He develops a capital theoretic framework in which he assumes that CR/D generates knowledge or 'research capital' that may increase output demand or reduce costs. Based upon his capital theoretic framework, the demand for the research capital stock or reduce costs. Based upon his capital theoretic framework, the demand for the research capital stock is estimating using industry level time-series data for 1956-74. These time-series data enable him to obtain the first measures of changes in the price of knowledge upon the demand for CR/D, and also to measure the impact of Changes in federal R/D expenditures upon CR/U.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

14/1 AD-A046 249 15/5 5/1

DECISION SYSTEMS DAYTON OH

A Study of the Cost-Effectiveness of Inventory Management Policies Based on Average Requisition Size.

DESCRIPTIVE NOTE: Final rept. 3 Dec 76-31 Jul 77.
AUG 77 6P Demmy, W. Steven: AUG 77 6P Der REPT. NO. RM-77-04 CONTRACT: F49620-77-C-0063

PROJ: 2304 TASK: 'A5 MONITOR: AFOSR

TR-77-1230

UNCLASSIFIED REFORT

SUPPLEMENTARY NOTE: See also Rept. no. RM-77-01. AD-A046 154. DESCRIPTORS: \*Logistics management, \*Inventory control, \*Cost effectiveness, Inventory analysis, Procurement, Simulation, Cost models (U)

This paper summarizes the accomplishments and lists associated documentation associated with Decision Systems Contract F49620-77-C-0063. The object of the study was to evaluate the relative cost-effectiveness of three alternate formulas developed by Presuitti, and Trepp for use in depot-level EOQ inventory management. Simulation studies using actual demand histories for Air Force items were used to evaluate the operating characteristics of each formula. (Author) (8) UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A046 105 5/1

AIR FORCE ACADEMY COLO

A General Technique for R and D Cost ( ) Forecasting.

DESCRIPTIVE NOTE: final rept..
SEP 77 65P weida.William J.:
REPT. NO. USAFA-TR-77-12

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Research management. Forecasting. Department of Defense. Weapon systems. Costs. Data bases. Mathematical prediction. Defense planning. Military budgets. Cost models. Curve fitting IDENTIFIERS: Research and development. Growth

(U) (U) curves. Prices

A general model for R and D cost forecasting was developed based on an expenditure pattern mas develoced bases on an expenditure pattern analysis of twenty-one current weapon systems. This model which was validated on an additional twelve weapons systems. Shows that R and D expenditures follow a certain, well-defined pattern, regardless of the type of system involved. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A046 012 12/2

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COLORADO UNIV BOULDER SYSTEMS ENGINEERING LAB

Reduction of the Cost of Feedback in Systems with Large Parameter Uncertainties.

DESCRIPTIVE NOTE: Interim rept. 205P Rosenbaum, Patrick : Horowitz.

Isaac ; CONTRACT:

AF0SR-76-2946

PROJ: 2304 TASK: 'A1

A STATE OF THE PERSON NAMED IN

MONITOR: AFOSR TR-77-1224

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Control theory, \*Cost analysis.
\*Systems engineering, Closed loop systems,
Feedback, Tolerances(Mechanics), Control,
Noise reduction, Power spectra, Time studies,
Invariance, Nonlinear systems, Transfer functions,
Mathematical filters (U) IDENTIFIERS: WUAFOSR2304A1, PE61102F (U)

This work deals with the synthesis of feedback systems to achieve specified performance tolerances, despite large uncertainty in a constrained part of despite large uncertainty in a constrained part of the system, denoted as the plant. Part of this work deals with linear time-invariant (lti) plants where the cost of feedback, if iti compensation is used, is primarily in the bandwidth of the feedback loop being much larger than that of the system as a whole - making the system very sensitive to sensor noise. Here, the objective is to reduce the loop bandwidth by means of non-Iti compensation. The result is a very significant reduction in loop bandwidth and with it, system sensitivity to sensor noise. sensitivity to sensor noise. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 5/3

AD-A046 006

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5/1

PURDUE UNIV LAFAYETTE IND

Strategic Implications of the Experience Curve Effect for Avionics Acquisitions by the Department of Defense.

DESCRIPTIVE NOTE: Final cept..
AUG 77 310P Cheney
MONITOR: AFIT C1-78-4 Cheney, William Fitch :

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Doctoral thesis.

DESCRIPTORS: \*Military procurement. \*Cost models.

Department of Defense. Manufacturing. Contracts. Department of Defense, Manufacturing, Contracts Costs, Quantity, Learning curves, Theory, Mathematical models, Parametric analysis, Air Force procurement, Avionics, Aircraft industry, Productivity, Economic analysis, Investments, Scale, Profits, Regression analysis, Theses IDENTIFIERS: \*Experience curve theory, Prices, Competition, Specialization

(U)

The Department of Defense (DoD) has supported numerous studies of learning curve theory, mainly in the context of the aircraft and airframe mainly in the context of the aircraft and aircrame industries. However, no research has yet been documented with respect to experience curve theory (as distinguished from learning curve theory) for either buyers or sellers in the relatively either buyers or sellers in the relatively specialized environment of the military market place. This dissertation describes investigations into the applicability and strategic implications of the experience curve effect for avionics purchases. experience curve eifect for avionics purchases. While experience curve theory seeks to explain product cost-quantity and price-quantity relationships in terms similar to those of learning curve theory, it also recognizes the influences of such managerially controllable factors as investment. specialization, and scale. The most significant finding of this study confirmed the applicability of experience curve theory in the military market place in spite of the unique characteristics of that market (i.e., cumulative average unit price parallels (i.e. cumulative average unit price parallels Cumulative average total manufacturing cost).

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UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF QUANTITATIVE BUSINESS ANALYSIS

Application of Nonparametric Methods in the Statistical and Economic Analysis of

DESCRIPTIVE NOTE: Technical rept.,
77 17P Blischke, Wallace R.;
Scheuer, Ernest M.;
CONTRACT: N00014-75-C-0733

## UNCLASSIFIED REPORT

Availability: Pub. in The Theory and Applications of Reliability, v2 p259-273 1977. SUPPLEMENTARY NOTE: Prepared in cooperation with California State Univ., Northridge.
DESCRIPTORS: \*Cost analysis. \*Nonparametric statistics. \*Guarantees, Life cycle costs.
Reliability, Reprints
IDENTIFIERS: \*Warranties. Renewal theory. (U) (U) WUNR042323

Reprint: Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPMY SEARCH CONTROL NO. ZOMO7

19/6 5/3 AD-A045 753

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND IL: SYSTEMS ANALYSIS DIRECTORATE

105VM Hogitzer Production Trade=Off Analysis.

(11)

DESCRIPTIVE NOTE: Final rept..
AUG 77 34P Trier.Norman H.:
REPT. NO. DRSAR/SA/N-69

## UNCLASSIFIED REPORT

DESCRIPTORS: Howitzers. Findustrial production. \*Cost analysis. Munitions industry. Maintenance. International trade. #ilitary forces(Foreign). International trade. #11/tary forces(Foreign).
Income. Trade off analyses. Inventory analysis.
Assessment. Investment expenditures. Army
equipment. Army procurement
IIENTIFIERS: =105-mm + pox-tzers. AM-204
Howitzers(105-mm). M-101A1
Howitzers(105-mm). M-101A1
Howitzers(105-mm). M-102 Howitzers(105mma). FMS(Foreign Military Sales). Foreign (0) (U) Military Sales

This report addresses (a) the cost of producing XM204 Howitzers to replace the Army's current assets of M101A1 and M102 Howitzers, and (b) the potential flet revenues (total revenues (b) the potential fet revenues (tota' revenues minus overhaul costs) of selling overhauled M101A1 and M102 Howitzers via Foreign Military Sales (FMS). For part (a). various mixes of XM204. M101A1. and M102 Howitzers were considered, and for part (b). various selling prices were considered. (Author) ( U)

AD-A045 889

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AD-A045 753 UNCLASSIFIED PAGE 155

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DDC REPORT BIBLIOGRAPHY SEARCH CONTPOL NO. ZOMOT

AD-A045 503

KAISER ENGINEERS DAKLAND CALIF

Plant Equipment Package (PEP) Modernization Program. Volume 7. PEP Economic model.

JUN 77 129P REPT. NO. 75-36-R-7 CONTRACT: DAGA21-75-C-0303

UNCLASSIFIED REPORT

SUPP\_EVENTARY NOTE: Prepared in cooperation with Stetter Associates, Inc. See also Volume 8, AD-A045

504.

DESCRIPTORS: \*Munitions industry. \*Industrial equipment, \*Management planning and control, \*Cost analysis. National defense. Mobilization. Combat readiness. Army planning. Logistics planning. Production, Procurement. Military equipment. Logistics support. Trade off analyses.

Mathematical models. Computer programs. Input. Mathematical models, Computer programs, Input, Mathematical
Flow Charting
Flow Charting
Flow Charting
Flow Plant equipment packages. (U)

IDENTIFIERS: packages)

The PEP economic model assigns production to the PEP lines to satisfy mobilization requirements at a minimum cost. The model analyzes the tradeoff between each lines's inventory costs and modernization costs in selecting existing lines or modernization costs in selecting existing lines or their modernized counterparts to operate during mobilization. The least costly combination of lines is selected. The technique of mixed-integer linear programming, a standard procedure for solving Cost optimization problems, was adapted to the PEP modernization problem. The objective of the linear model is to minimize the total system cost composed of inventory, production and modernization costs. of inventory, production and modernization costs. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A045 461 15/5 14/1 13/10

NAVY FUSET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Conventional AS Load List Study.

SEP 77 REPT. NO. 130 Burdick.L. J. :

UNCLASSIFIED REPORT

DESCRIPTOR: "Yaval logistics. \*Logistics support.
\*Inventory control. \*Cost models.
\*Tendersivessels). \*Submarines. Economic

models. Supplies. Normal distribution. Optimization

(6) IDENTIFIERS: Load list study, LPN-FMSO-971260 (U)

This study evaluates alternative techniques for computing conventional submarine tender load lists. Given specified performance goals. Areas that are evaluated include: (1) the use of alternative demand distributions: (2) the use of alternative techniques for controlling range; and (3) the use of alternative optimization models. Alternatives are evaluated separately for equipment-related items. The various techniques are evaluated using actual submarine demand data. The models are evaluated in terms of units effectiveness, requisitions effectiveness, and range effectiveness. A common model is recommended for computing conventional and FBM (Fieet Ballistic Missile) submarine tender load lists. (Author)

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AD-4045 461

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A045 447 5/9 14/:

DEFENSE SYSTEMS MANAGEMENT COLLYFORT BELYDIR VA

Training Developants: A Means to Reduce Life Cycle Costs. (U)

E: Study project rept.. 53P Caver,Troy Verno. : DESCRIPTIVE NOTE: MAY 77

### UNCLASSIFIED PEPCRT

DESCRIPTORS: \*Teaching methods. \*Cost benefits. \*\*Job training, Military training, Cost models, Life cycle cost:, Savings, Job satisfaction. Performance(Human), Investment expenditures, Equipment, Trade off analyses, Defense systems IDENTIFIERS: Project management

This report examines new training concepts developed throughout DDD over the past decade. The underts that show promise for reducing life cycle cours are considered for trade-offs with hardware developments. The process of trade-off considerations is treated with a marginal cost-marginal benefit analysis (put with a marginal cost-marginal benefit analysis (put the investment where it provides the biggest return). Then a sensitivity analysis is conducted on parameters affected by training using a computer model to determine a trend in life cycle costs/ savings. It is concluded that many benefits one be derived by increasing the share of the investment in the training subsystem although it may be at the cost of the hardware subsystem in some cases. These investments appear to be best placed in training and technical documentation or in jot performance hids. Not only should this type investment reduce the life cycle cost but also provide job enrichment, higher operational abailability, fewer maintenance personnel requirements, fewer training course requirements, increased systems effectiveness, and other pavings. (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A045 421 13/2 5/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Cost of Recycling Waste Material from (U) family Housing.

DESCRIPTIVE NOTE: Final rept..
SEP 77 61P Freeman .R. E. :Ponahue.B. SEP 77 61P Freeman .R. E. :Po A. :Kloster.S. E. :Schanche.G. W. :Smith.

E. D. ; REPT. NO. CERL-TR-N-29 PROJ: 4A762720A896 TASK: T2

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Waste recycling. \*Solid wastes. Cost analysis. Costs. Military facilities. Housing(Jwellings). Residential section. Marketing. Resource management IDENTIFIERS: PE62720A. AS896. MU007

The purpose of this research was to determine the cost of recycling \*aste from a selected family housing area at Fort Bragg through source separation in order to evaluate the feasibility of solid waste recovery and recycling at a military installation. This report presents (1) analysis of the waste volume and composition from the Normandy Heights area at Fort Bracg. (2) Normandy Heights area at Fort Bracq. (2) data showing the current cost of refuse collection and disposal in the Normandy Heights area. (3) a market analysis for recyclable material in the Fort Bracq area, and (4) a design for the recyclable material recovery strategy that was tested and the costs associated with this strategy. (5) participation rates of Normandy Heights residents. (6) waste reduction rates, and (7) collection labor data. It was found that recycling by source separation could be cost-effective, could reduce the amount of refuse to be landfilled, and could decrease the number of weekly collections. It was established that military family housing refuse is comparable to that of the civilian sector and that military personnel are willing to participate in # source separation recycling program. The research source separation recycling program. The research indicated that experienced personnel should collect (U) recyclables. (Author)

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB DHIO

A Pre-Processor for a Structured Version of COROL

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DESCRIPTIVE NOTE: Master's thesis,
MAR 77 78P Hilb,Robert Clifford;
REPT. 'NO. AFIT-C1-77-55

## UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: \*COBOL. \*Preprocessing. \*Costs.
\*Computer programming. Acquisition. Maintenance. \*Lomputer programming, Acquisition, Maintenance Budgets, Digital computers IDENTIFIERS: Structured programming languages. Nesting(Subroutines), IF statements, DO UNILL'statements, PERFORM statements, Top down

A version of COBGL that permits structured programming was designed. It was implemented using a pre-processor that ditputs standard CCBOL. The pre-processor will indiscriminately run programs that pre-processor will indiscriminately run programs that are either structured or nonstructured. Or with very limited restrictions- programs with a nixture of both. A structured IF was included as a modification of the COBOL IF. In line looping was created with a redefinition of the PERFORM, maintaining all of its capabilities and adding a DO UNTIL. The PERFORM was also modified to allow a CASE construct. All new structures are completely nestable. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A045 210

15/5 14/1

DRC INVENTORY RESEARCH OFFICE PHILADELPHIA PA

R. Q. Inventory Problem with Unknown Mean Demand and Learning (A Sequel).

(u)

DESCRIPTIVE NOTE: Technical rept. SEP 77 23P REPT. NO. 12-77-6 Kaplan.Alan J. :

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Inventory control. \*Cost models.
\*Spare parts. Mathematical models. Histograms.
Integral equations. Metrodology. Bayes treorem.
Distribution functions. Poisson density functions
IDENTIFIERS: Poisson distribution. Backgrden

(U) (U)

Report concerning management of new items for which only a Bayesian prior distribution on the mean is available. As demand occurs, the prior is updated and reorder point and reorder quantity are revised. In an earlier paper, a heuristic solution to finding an optimum reorder point was presented. This report introduces an alternative cost structure, discounted cash flow, and adapts the heuristic approach to this cost structure. It reports on the results of simulation using real world demand data, which proved favorable to this approach. It discusses a modification to current approaches for determining cost of Dackorder. This report was mutivated by concern with management of low failure items. For such items the discounted cash flow

structure is most appropriate. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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SCIENCE APPLICATIONS INC MCLEAN VA MANUFACTURING TECHNOLOGY PROJECT OFFICE

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume

III. Appendices. DESCRIPTIVE NOTE: Final rept.
JUN 77 258P
REPT. NO. SAI-MT-2010-V0:-3, SAI-78-524-WA-V0!-

3 CDHTRACT: N00039-77-C-0095

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A045 DESCRIPTORS: \*Manufacturing, \*Electronic equipment. \*Meapon Systems, \*Procurement, \*Cost
effec'iyeness, Naval equipment, Electric Cables,
Electron tubes, Integrated circuits, Printed
circuit boards, Hybrid Circuits
IDENTIFIERS: Navionics, Cabinets, Top down analysis

Contents: Electronics MT Project Descriptions: MT Incentives for Industry: Industrial Interview Objectives and Procedures: Army ECDM Conference --Specific Findings: Top-Down Analysis of Navy Keapons Systems Electronics Costs: Economic Analysis and Computer Program Description: Equipment List and Study Results Related to Specific Findings: Bibliography.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

AD-4045 163 13/8 3/5 15/5

SCIENCE APPLICATIONS INC MOLEAN VA MANUFACTURING TECHNOLOGY PROJECT OFFICE

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume

II. A Cand data Electronics Manufacturing Technology Plan.

DESCRIPTIVE NOTE: Final mept. JUN 77 134P REPI. NJ. SAI-MI-2010-Vol-2. SAI-78-524-WA-Vol-

CONTRACT: N00039-77-C-0095

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also volume 3. AD-A045 DESCRIPTORS: \*Manufacturing. \*Electronic equipment. \*Weapon systems. \*Procurement. \*Cost effectiveness. Naval Equipment. Electric cables. Electron tubes. Integrated circuits. Printed Circuit boards. Hybrid circuits IDENTIFIERS: Navionics. Cabinets. Top down (U)

analysis

This volume contains a candidate manufacturing technolog; (MT) plan for Navy electronics formulated as a result of the study described briefly in Volume I and in detail in Volume III of this report. The purpose of this volume is to give information on the aspects of the proposal such as:

(1) savings minus investment. (2) savings to investment ratio. (3) timeframe. (4) applicable weapons systems. and (5)
manufacturing cost category of cost savings on an overall, as well as individual, project basis. (U)

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SCIENCE APPLICATIONS INC MCLEAN VA MANUFACTURING TECHNOLOGY PROJECT OFFICE

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis.

Final rept. 1 Dec 76-30 dum 77, Knasel.T. M. :McGahan.J. DESCRIPTIVE NOTE: JUN 77 382

REPT. NO. SAI-MT-2010-Vol-1. SAI-78-524-WA-Vol-

CONTRACT: N00039-77-C-0095 WONL OR: GIDEP E119-0746

UNCLASSIFIED REPORT

SUPPLEVENTARY NOTE: See also Volume 2, AD-A045

DESCRIPTORS: •Manufacturing, •Electronic equipment. \*Weapon systems. \*Procurement. \*Cost effectiveness, Naval equipment. Electric caples. Electron tubes. Integrated circuits. Printed circuit boards, Hybrid circuits ful

IDENTIFIERS: Navionics, Cabinets, Top down analysis

This study examined investment opportunities in Manufacturing Technology (MT) related to electronic systems procurement and presents an initial candidate plan for the FY80 to 84 timeframe. The major cost areas for electronic products were determined by a top down study of the detailed breakout of electronics subcomponent and labor categories. Results indicate that about half of electronics Costs are found in seven key material areas. The remainder of the Cost is apportioned into 4 labor areas. The breakout into 11 final categories is based on data for nearly 100 systems. These systems represent a broad spectrum of Navy electronics procurement. The 11 cost entegories are cables and cabinets, sensors and special tubes, integrated circuits, small hardware and printed circuit boards (without corponents attached). discrete semiconductors, hibrid circuits, passive components, assembly labor, fabrication labor, support labor, and test labor.

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AD-A045 082 13/1 1=/1

DECISIONS AND DESIGNS INC MOLEAN VA

An Attitudinal Study of the Home Market for Solar Devices.

DESCRIPTIVE NOTE: Technical rept. War-Sep 77

SEP 77 71P Campbell, vincent M. Rex V. iRnees, Inchas R. iRepici. Dominic J. Campbell. Vincent N. : Brown.

REPT. NO. 19-77-5-25 CONTRACT: NOC014-75-C-0426

UNCLASSIFIED REPORT

DESCRIPTORS: \*Solar heating. \*Commercial equipment. \*Cost analysis. \*Surveys. Public coinion. Attitudes(Psychology). Market research. Projection. Companison. Public utilities. Statistical analysis. Computer applications. Correlation techniques

f 123

This study estimates that 1.1 million American residences would have home and hot water heated with solar energy by 1985 if the total cost averaged \$20 a month more than the cost of heating with fossil a month more than the cost of heating with fossil fuels, and initial costs were no barrier. An apprisional 7.2 million homes would have not water alone heated with solar energy by 1985 if the total cost was 55 a month more. These are fairly favorable cost assumptions under current conditions. Almost half (46%) of potential noneowners Surveyed aculd prefer to have their living spaces and hot water heated with splan changy if the total cost averaged 520 per month more than conventional heating and initial costs were no parrier. Although interest runs high, for various economic and technical reasons only about 1 in 75 American families may have both their home and water heated with solar energy by 1985. Any development that makes Solar energy cost-competitive with fossil fuels for nome heating will increase the level of market penetration. Another key to how quickly
Americans will have solar nomes is how fast
builders and developers use solar energy in new homes and can assure good performance. (Author)

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SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY

AD-A044 897

12/2 5/3

STANFORD UNIV CALIF DEPT OF CPERATIONS RESEARCH

Optimal Selling When the Price Distribution is Unknown.

DESCRIPTIVE NOTE: Technical rept..
SEP 77 26P Derman.C. Derman.C. : Lieberman.G. J. ROSS.S. ; REPT. ND. TR- 85 CONTRACT: NOO014

N00014-75-C-0561

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Columbia Univ., New York under Contract N00014-75-C-0620 and California Univ., under Contracts N00614-68-A-0200-1036 and DAHC04-74-C-0226. DESCRIPTORS: \*Business, \*Systems approach, \*Cost analysis, Decision making, Optimization. Distribution functions, Exponential functions, Modification, Recall, Bayes theorem, Random variables. variables
IDENTIFIERS: +Sales, Martingales.

WUNR042002

This paper reconsiders the classical model for selling an asset in which offers come in daily and a damision must then be made as to whether or not to darision must then be made as to whether or not to sell. For each day the item remains unsold a continuation (or mailtenance cost) c is incurred. The successive offers are assumed to be independent and identically distributed random variables having an unknown distribution F. The model is considered both in the case where once an offer is rejected it may not be recalled at a later time, and in the case where such recall of previous offer, is allowed.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A044 744 15/5 13/10 5/1

ADMINISTRATIVE SCIENCES CORP ALEXANDRIA VA

An Ope ating and Support Cost Model for Aircraft Carriers and Surface Combatants.

DESCRIPTIVE NOTE: Final technical rept. 1 Sep 72-31

Jul 77. SEP 74P Eskew.Henry L. : Frazier. Tromas P. :Heilig.Paul T. : REPT. NO. ASC-R-115 CONTRACT: N00014-73-C-0083

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval logistics. \*Naval vessels. \*Cost models, Naval operations, Naval equipment.
Ship percinnel, Cost estimates, Naval procurement.
Combat sinport, Supplies, Repair, Maintenance.
Spare parts, Modification, Parametric analysis

The report is in two parts. Part I details the The report is in two parts. Part I details the development and implementation of an operating and support cost model for aircraft carriers and surface combatants. Twenty-three 0 and S cost elements were identified and defined, with close adherence being maintained to the draft CAJG Operating and Support Cost Development Guide for Naval Ships, the Mavy Resource Model (NARM), and the work of the Visibility and management of Support Costs (VAMOSC) Study Group. Cost Support Costs (VAMOSC) Study Group. Cost data were obtained from three principal sources: Navy Cost Information System (NCIS). NARM Program Factors, and the Center for Naval Analyses' SOCER Study. Procedures consisting of parametric cost-estimating relationships, cost factors and '(nruput' estimates were developed for the full set of cost elements. Those procedures were incorrurated into an automated model which was then used to estimate aroual D and S costs for the DD-963 and the FFG-7. Part II of the report summarizes all the work accomplished under the contract and provides a listing of all technical reports submitted. (Author) (U)

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DOTY ASSOCIATES INC ROCKVILLE MD

Software Cost Estimation Study, Volume 11. Guidelines for Improved Softwara Cost Estimating.

DESCRIPTIVE NOTE: Final technical rept. 23 Feb 76-23

Feb 77. AUG 77 147P

Doty, D. L. ; Nelson, P. J.

131-Wart, Kenneth R.; REPT. ND. TR-151-Vol-2 CCNTRACT: F30602-76-C-0182 PROU: 5581 TASK: 14

MONITOR: RADO TR-77-220-Vo1-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See . Iso Volume 1, AD-A042

DESCRIPTORS: \*Computer programs, \*Cost estimates, Acquisition, Scheduling, Policies, Budgets IDENTIFIERS: WURADC55811404, PE62702F (0)

This report contains guidelines for developing estimates of computer software cost. Consideration is first given to the initial program estimate which is often made with a paucity of supportive data. Adjustments are presented for modifying the estimate given the availability of additional data. Procedures are presented for assessing the affordability of the resulting estimates. Emphasis affordability of the resulting estimates. Emphasis is placed on developing a conservative but reasonable it placed on developing a conservative but reasonable best estimate for purposes of program budgeting. Separate consideration is given to steps that should be taken to bring the program in at or below budget. Frequently recurring problems are summarized in their rime-phased order of occurrence. (Author) UNCLASSIFIED

DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A044 529

15/3 19/1

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH

Cost Effectiveness of Smoke Screens Employed by Indirect Fire Means.

(U)

DESCRIPTIVE NOTE: Final rept.. 97P Brewer. Dennis W. : JUN 77

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Vaster's thesis. DESCRIPTORS: \*Smoke screens. \*Deployment.
\*Indirect fire. Cost effectiveness. Obscuration. Probability. Computerized simulation. Heuristic methods. Mathematical models. Mortars. Howitzers. Weather. Wind. Computer programs. Theses

(U)

This thesis examiner cost effectiveness of smoke screens employed by indirect fire means. Large area smoke employment means are included for comparison with the indirect fire means, and for demonstration with the indirect fire means, and for demonstration of a potential source of smoke screens unfamiliar to many tacticians. Optimal tactics for smoke screen employment are not addressed. I to computer models are developed, one for indirect fire means (60mm, 81mm, and 4.2in mortars, as well as 105mm and 155mm howitzers) and one for large area means (smoke generators and smoke pots). Performance characteristics of indirect fire smoke ammunition are incorporated into the model based on recent experimentation by the U.S. Army Systems experimentation by the U.S. Army Systems Analysis Activity. Smoke screens are described by input parameters, which are varied by a heuristic search procedure. These parameters (and their limits) include: weather (lapse, neutral, and inverse conditions with accompanying wind), screen duration (1 through 60 minutes), and sheaf width (100 through 1050 meters). Cost effective preferences are recommended for various smoke screen employment means. Possible areas for future research are suggested. (Author) (U)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A044 508 5/1 15/5

DRC INVENTORY RESEARCH OFFICE PHILADELPHIA PA

Bare Bones: A Method for Estimating Provisioning Budget Requirements in the Outvears.

DESCRIPTIVE NOTE: Final rept. JUL 77 43P REPT. NO. 1RO-242 Orr, Donald A. ;

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Army budgets, \*Systems management, \*Cost estimates, Cost models, Standardization, Mathematical prediction, Inventory control, Enditems(Products), Logistics support, Ranking, Criticality
IDENTIFIERS: Project management. Cost curves.
SIP(Standard Initial Provisioning). Initial (81)

provisioning (U)

Different methodologies and procedures are currently used by Project Managers/Commodity
Commands in the Army to estimate initial
provisioning funding requirements early in the
development cycle of a system/end item. These development cycle of a system/end item. These estimates are to project support costs 1-5 years hence, but there has been a lack of quality, uniform methodology, and defensible rationale in the estimates. This paper develops a prototype methodology that reflects, early on, the quantities and costs that would be determined ultimately using the Standard Initial Provisioning model (SIP) just prior to the deployment of the end item in the budget execution year. An important pillar of the new procedure is a cumulative cost curve, generated from the provisioning costs of a small percentage of from the provisioning costs of a small percentage of the total components, from which extrapolations are made of the total provisioning costs for the system. Selection of critical Components is made by ranking parts by replacements per 100 end items x component unit price.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A044 295 13/11 13/8

NAVAL INTELLIGENCE SUPPORT CENTER WASHINGTON D C TRANSLATION DIV

Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovieniye i Montazh Sudovykh Truboprovodov i Sistem).

AUG 77 29P G REPT. NO. NISC-Trans-3953 Ganov.E. V. :

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Trans. of Mono.. Leningrad. 1975 p5-12. 84-93. 102-109 and 123-126. DESCRIPTORS: \*Pipes. \*Pipelines. \*Production engineering. \*Cost analysis. Assembly. Snipboard. Welding. Welded joints. Flanges. Life expectancy. Pipe fittings. Valves. Stainless steel. Copper nickel alloys. Brass. Linings. Polyethylene plastics. Zinc coatinos. Translations. USSR

Requirements put toward various pipe systems are dictated by application, environmental factors, class of ships and others. Among the most common requirements are the necessary mechanical strength.
long service life, easiness in handling (machining
assembly) and low cost. The mechanical strength is determined by various properties which are is determined by various properties which are revealed during testing of samples, or the testing of individual pipes under laboratory conditions of the plant-supplier. The service life is determined by the stability of pipes against corrosion, erosion, aging and other destructive environmental forces. Economic considerations also occupy an important place in the selection of material for pipe systems. As a result the majority of the simplines are built. As a result the majority of the pipelines are built of inexpensive carbon steel pipes, regardless of their Comparatively short service life. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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AIR FORCE INST OF TECH  $\mbox{wright-patterson}$  AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

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A Study of Opportunistic Replacement Tactics for Modular Jet Engine Management.

DESCRIPTIVE NOTE: Master's thesis.

JUN 77 148P Duvall.Thomas J. :Goetz. JUN 77 Thomas J. ;

REPT. NO. AFIT-LSSR-29-77A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Turbofan engines. \*Replacement theory. \*Aircraft maintenance. \*Cost effectiveness. Jet fighters. Modular construction. Repair. Maintenance, Maintenance management. Costs. Reduction. Inventory. Computerized simulation. Computer programs. Theses
IDENTIFIERS: Opportunistic replacement. F-100 engines. F-15 aircraft, Preventative maintenance. (U) (U) Failure maintenance

Opportunistic replacement for the F-100 engine Opportunistic replacement for the F-100 engine has been previously studied to determine if an opportunistic replacement policy can save jet engine maintenance costs. The idea of opportunistic replacement is to replace an unfalled engine part before it fails while the engine is in the repair shop for some other reason (in opportunity). The costs that have been add essed in previous research are transportation, packing, manpower, parts, and depot overhaul costs. This study developed a method by which the impact of opportunistic replacement on spare engine and module inventory requirements can be assessed. Several different opportunistic replacement policies were airrecent opportunistic replacement policies were studied and an optimum policy, based on the inventory costs and depot overhaul costs, was found. The optimum policy resulted in a 16 percent savings in initial inventory investment. Data was obtained from the Directorate of Propulsion and Auxiliary Power Systems, Headquarters. Air Force Logistics Command. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONO7

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Investigation of the Relationship of Section Production Costs to Total Production Costs of Gas Turbine Engines.

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DESCRIPTIVE NOTE: Master's thesis. JUN 77 104P Greene.Jam JUN 77 Anthun Ev : Greene.James K. :Stark. REPT. NO. AFIT-LSSR-34-77A

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Gas turbines. \*Life cycle costs. Turbofan engines. Turbojet engines. Cost estimates. Air Force produrement. Concept formation, INDUSTRIAL ENGINEERING, Validation, Industrial production, Specifications, Military requirements, Correlation techniques, Turbine parts. Regression analysis. Data acquisition. Theses

The Air Force Aero Propulsion Laboratory is currently exploring techniques which may be used to estimate the production costs of gas turbine engines in the conceptual and validation phases of system acquisition. This study served as a part of that on-going exploration and was designed to investigate the relationship of engine section investigate the relationship of engine section production costs to total production costs of gas turbine engines. The results of this research include the following findings: (1) correlation analysis provides an effective technique for determining those relationships: (2) among engine sections, costs of the high pressure turbine and compressor sections demonstrated the highest consistent correlations with total engine production cost: (3) regression analysis using the costs of high pressure turbine and compressor sections appears to haid promise for estimating total engine production cost: (4) a modification of the industrial engineering approach in which a cost estimate of the high pressure turbine section would be 'built up' and used. in turn, to estimate production costs of the complete engine also appears to hold promise: and (5) engine cost data presently collected and retained within the Air force appear inadequate for estimating studies (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A044 157

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OFFICE OF THE COMPTRCLIER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Life Cycle Cost Model for Tracked Vehicle Systems, (U)

dUL 77 144P Marron Willham S. : Miler. Edward H. : Marrone, Michael J. ; Clough, REPT. NO. DCA-R-50

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost models, \*Tracked vehicles. \*Weapon systems, \*Life cycle costs. Army operations, Cost estimates, Computer applications, Production engineering, Manufacturing, Quality control, Maintenance, Repair, Spare parts, Ammunition, Fire control systems

The Army Life Cycle Cost Model for The Army Life Cycle Cost Model for Tracked Vehicle Systems describes the methodology and rationale used for developing an estimate for all or part of the life cycle cost of a tactical tracked vehicle weapon system. The model is intended for use by cost analysts. It reflects the Current doctrine for Independent Parametric Cost Estimates. Updates of this document will be made periodically as revisions or additions to the methodology require. The data base which supports the variables shown in the various equations throughout the model is published separately. (U)

#### UNCLASSIFIED

DDC REPORT BIBLIUGRAPHY SEARCH CONTROL NO. ZOMO7

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Air Force Cost Estimating Process: The Agencies Involved and Estimating Techniques Used.

(U)

DESCRIPTIVE NOTE: Master's thesis. JUN 77 Eugene D. : 143P Lewis.Edwin M. : Pearson. REPT. NO. AFIT-LSSR-5-77A

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Weapon systems. \*Air Force procurement. Logistics - hagement. Methodology. Costs. Growth(General). Department of Defense. Literature surveys.

(U)

The Department of Defense is faced with the task of acquiring new weapon systems. These task of accurring new weapon systems. These acquisitions have been characterized by a history of cost growth, while disparities exist among the cost estimates that are made by different organizations. The AF Business Research Management Center believes that few individuals have an overall, detailed perception of how the various cost estimates interrelate and this belief was substantiated by the research. An extensive Substantiated by the research. An extensive literature review was accomplished. A model of the Cost Estimating Process as it appears in published sources was developed, including specific estimating techniques used. Four factors were estimating techniques used. Four factors were identified which need attention if the accuracy of estimates is to be improved: (1) a standardized definition of 'accuracy': (2) a feedback system tailored to the individual estimator: (3) a compendium of cost estimating techniques: (4) a standardized data base identifying the estimator. project, techniques used, and time frame of the cost (U) estimate.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Analysis of the Cost Center Performance Measurement System.

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DESCRIPTIVE NOTE: Master's thesis. JUN 77 136P Co Finch M. Jr: REPT. NO. AFIT-LSSR-2-77A Coveli.Philip A. ;Jones.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Management planning and control, \*Cost effectiveness, Military organizations, Decision making, Supervisors, Accounting, Feedback, Finance, Resources, Allocations, Questionnaires, Factor analysis, Sampling, Theses

The Air Force Cost Center Performance Measurement System (CCPVS) was implemented to provide a means for measuring the productivity of cost centers. Before all commands could fully implement the program, the Air Force made the CCPS report, the heart of the CCPMS, optional and eventually cancelled the CCPMS. This research was to determine the extent that major commands discontinued use of the CCPS when made optional, to determine if some managers did not find the CCPs useful, and to determine if some managers used the CCPS for decision making. The researchers found CCPS for decision making. The researchers found that the majority of major commands were apparently undermotivated towards the CCPMS and dropped the optional CCPS. From the analysis of cost center manager questionnaires, the researchers concluded that cost center managers found the CCPS to be not useful because it was not meaningful at their responsibility level, the output measures (for most cost centers) were not useful descriptors of output, and many managers received other more useful reports that contrined the same information. The researchers recome not that a new output measurement program be established to meet the individual needs of cost centers, reflect the actual cost center's productivity and only feedback information concerning productivity and only feedback information concerning controllable costs. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A044 083

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Identification and Characterization of Cost Models/Techniques used by the Air Force Logistics Command to Estimate Jet Engine Operation and Support Costs.

(U)

DESCRIPTIVE NOTE: Master's thesis.

JUN 77 189P Davidson.George H.:

Griffiths.Raymond E.:

REPT. NO. AFIT-LSSR-01-77A

#### UNCLASSIFIED REPORT

DESCRIPTOPS: \*Life Cycle Costs. \*Jet engines.
\*Cost models. Logistics management. Decision
making. Cost estimates. Air Force operations.
Budgets. Development tests. Test and evaluation.
Production. Logistics support. Military requirements. Theses IDENTIFIERS: Design

(U)

The Life Cycle Cost (LCC) for jet engines includes the cost of design and development, test and evaluation, production, operation and support, and evaluation. production. operation and support. and where applicable. disposal. Although only a small portion of the total LCC is incurred prior to production. the decisions made up to that point determine most of the total engine LCC. It is during this early design phase that there is insufficient operational information on the new engine to permit prediction of costs incurred during the presentation and support where the presentation of the second support where the second support engine to permit prediction of costs incurred during the operation and support phase of LCC. Estimation of LCC is further hindered by the absence of knowledge about techniques which could be used during engine design. This research involved a systematic investigation of the models and techniques used by the Air Force Logistics Command to estimate let engine operation and support cost. These models and techniques are used in the areas of requirements determination for recoverable. of requirements determination for recoverable Spares, engine overhaul, and total annual support-cost estimates for recoverable items. They are Characterized to allow a determination as to their applicability for use during engine design. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines. (U)

Master's thesis.
P Baker,Michael D. :Johnston. DESCRIPTIVE NOTE: JUN 77 Bruce B. ; 168P

REPT. NO. AFIT-SLSR-11-77A

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft engines, \*Life cycle costs. \*Costs, \*Turbojet engines, \*Turbofan engines, Logistics management, Work measurement, Maintenance, Logistics support, Inventory cortrol, (u) Ground support, Management planning and control

This study is an attempt to locate, analyze and evaluate data bases which contain operation and evaluate data bases which contain operation and support (O and S) cost data for aircraft engines. The search for these data bases was primarily conducted at Headquarters, Air Force Logistics Command. The study focused upon the Increase Reliability of Systems (IROS) data base, the HO368 DOD Cost and Production Report, the AFM 400-1 actuarial data system, the cost and planning factors in AFR 173-10, aerospace appropriate automatical posterior to the Tables of cost and planning factors in AFR 173-10, aerospac ground equipment data located in the Tables of Allowance, and Component Improvement Program data located at the Deputy for Propulsion, Aeronautical Systems Division. The study of these data bases led to the conclusion that data bases in the Air Force are not well designed for cost data collection and that many data bases are necessary to obtain the total operation and support cost of an aircraft engine. (Author)

UNCLASSIFIED DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A044 046

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BOEING AEROSPACE CO FEATTLE WA LOGISTICS SUPPOR AND

Life Cycle Cost of C-130E weapon

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DESCRIPTIVE NOTE: Interim rept. 29 Jun 76-3 Jun 77.
JUL 77 69P Brown.Frank D. :Walker.
Gary A. :wilson.Dav.d H. :Dieterly.Duncan L.: CONTRACT: F33615-76-C-0052

PROJ: 1959 TASK: 00

MONITOR: AFHRL TR-77-48

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Transport aircraft. Life cycle costs. Cost models. Cost estirates. Human rescurces. Materials. Cost analysis. Data acquisition. Air Force procurement. Air Force research. Resource management. Research management. Air Force

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operations. Operations research
IDENTIFIERS: \*C-130 Aircraft. C-130E Aircraft.
WUAFHRL15590701. PE63751F

 $H_{D}man$  and material resource data accumulated from all available Air Force sources is used to Galculate the approximate life cycle cost (LCC) of the C-130E Hercules aircraft. The data was the C-130E hercules aircraft. The data was located, collected and reduced to computer files under another phase of the study. The Air Force Cost Analysis and Cost Estimating (CACE) wodel was modified and used to calculate the C-130E tCC. Based on fifteen years of Air Force data (1962-1976) a LCC estimate was calculated. The methodology for determining the historical LCC may be applied to other systems. The primary difficulty in computing historical LCC estimates is the lack of required data files and the low quality control on many data variables. This research provides a methodology and a quide for accomplishing historical LCC on other weapon systems. The reason for determining historical LCC is to estat ship abaseline that can be applied to systems. The reason for determining niaturical LCC is to estat is a baseline that can be applied to new weapon ystem development programs to identify possible under for raddaign to reduce future Jeapon system LCC.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Vethodology Improved Structural Cost Analysis.

DESCRIPTIVE NOTE: Final rept. dul 75-Feb 77. P Kenyon.R. E.:

MAY 77 281P KG: CONTRACT: F33615-75-C-3148

PROJ: 1368 TASK: 05 MONITOR: AFFDL

TR-77-24

# UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: \*Airframes. \*Cost estimates. \*Cost analysis. Weapon systems. Methodology. Costs. Production. Rates. Computerized simulation. Computer programs. Wing boxes. Bomber aircraft. Aircraft, Metals, Alloys
IDENTIFIERS: Design to Cost. Commonality. Scrappage. PE62201F, AFFDL13680565

This report describes a study to improve a previously developed weapon system costing methodology for aircraft airframes and basic previously developed weapon system costing methodology for aircraft airframes and basic structures under Contract F33615-72-C-2083. The methodology is part of a preliminary design level technique for the cost estimation flight vehicle structures. Applications of the method have indicated a number of areas where further study and development could be expected to provide an advanced state-of-the-art capability. This study was directed towards that end. The study was limited to the specific changes consisting of (1) development of complexity factors for technologies and materials represented by the advanced strategic bomber wing carry-through box. (2) modification of raw material cost estimating relationships (CERs) to increase sensitivity to material product form and type of scrappage. (3) investigation of additional assembly techniques and adding or modifying corresponding cost estimating factors. (4) modification of existing CERs to include evaluation of variations in the degree of commonality involved. (5) determination of the effect of production rate on recurring production effect of production rate on recurring production costs,

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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RAYTHEON CO WALTHAM MASS RESEARCH DIV

Cost-Effective GaAs Read IMPACT Transmitters.

(U)

DESCRIPTIVE NOTE: Scientific rept. no. 1. 29 Mar-29 Sep 76. MAY 77 97P Wallace.R. N. :

REPT. NO. S-2166 CONTRACT: F30602-76-0143 PROJ: 4600 TASK: 18

MCNITOR: RADC TR-77-178

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Impatt dicdes. \*Radio transmitters. \*Microwave equipmen\*. \*Power amplifiers. Gallium arsenides. Cost effectiveness. Strip transmission lines. Epitavial growth. Semiconductor devices. C Band. Frequency modulation. Data links. Hybrid

circuits
IDENTIFIERS: Read diodes. PE62702F. RADC46001803

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The objective of this program is to develop a low-cost 5-GHz 40-W FM CM transmitter. using GaAs Read iMPATI diodes as RF power-generating elements, suitable for data-link applications. Results of work so far indicate that the RF performance coals for the transmitter can be achieved, but that size, weight, and primary power consumption goals will be exceeded. We have designed a transmitter system that separates the unit into four main subassemblies: a VCO-driver, a multidiode output stade, a multichannel current regulator, and a DC-to-DC inverter. The VCO-driver producing 3.3-W output at 5 GHz, has been assembled and tested. Epitaxial wafers for the high-power GaAs Read diodes to be used in the output stage have been successfully grown. The best diode result obtained so far is 21-W CW output at 4.86 GHz with 29.5 percent efficiency, and five of six wafers processed have produced 15-W diodes. The diodes permit a four-diode output stage. Six monthly shipments of six diodes representative of those to be used in the output stage have been made to RADC. to be used in the output stage have been made to RADC. (0)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A044 029 5/9 14/1

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO

Academic Attrition from Navy Technical Training Class 'A' School Courses. (U)

DESCRIPTIVE NOTE: Final rest. Nov 76-Jun 77.

JUL 77 56P Middleton, Morris G. :Rankin. JUL 77 56P Middleton, Morris G. William C. :Green.Eric K. :Papetti.Clarence J.: REPT. NO. TAEG-47

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval training, \*Attrition, \*Cost analysis, Naval personnel, Enlisted personnel. Courses(Education), Trainees, Correlation techniques

Attrition of enlisted personnel during first tour enlistment has become a major area of concern in the all-volunteer U.S. Navy. Attrition from the 'A' school training environment was perceived to be a part of the overall attrition problem. This study investigated 147 A1 and A3 Navy courses to: identify factors assected with academic attrition; identify the extent and pattern of attrition in these courses: and determine the overall and specific cost of academic and nonacademic attrition. Extensive data are provided on over 20 variables. Major variables are academic attrition, nonacademic attrition, qualified inputs, unqualified inputs, and cost per equivalent graduate. Attrition of enlisted personnel during first tour

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A043 936 1/5 14/1

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION SYSTEM PLANS

Remoteness-Compensation Methodology for Benefit/Cost Establishment and Discontinuance Sriteria.

DESCRIPTIVE NOTE: F.nal rept..

JAN 77 57P Loughlin.Richard M.: REPT. NO. FAA-ASP-76-7

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Terminal flight facilities. \*Air traffic control systems. \*Remote areas. \*Cost benefits. Air transportation. Remote systems. \*Remote terminals. Facilities. Construction. Costs. Installation. Housing(Dwellings). Alaska. Methodology. Compensation

IDENTIFIERS: Airway Planning Standard Number

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This report develops a procedure for adjusting the benefit/cos\* (B/C) ratios by which proposals for FAA terminal facilities in remote locations are evaluated. The procedure is applicable to the types of installations for which B/C analyses, based on nationwide average data, are incorporated in Airway Planning Standard Number One (FRA Order Planning Standard Number One (FAA Order 7031.28). Nithout such an adjustment, proposals for facilities in Alaska and other such locations could not realistically be compared with those for facilities in the continuous 48 states (CONUS). The compensatory methodology first adjusts construction and installation costs according to a geographically differentiated index. Staff housing cost is subtracted. Exceptional site-preparation and other cost elements are not discarded, but their cost is made equivalent to the cost of doing the same work at a corresponding CONUS site. Next. for facilities to serve remote communities shown to be exceptionally reliant on air transportation, the ascribed penefits are adjusted upward. This benefit enhancement is proportional to the communities' aviation-dependency as determined by the modal aviation-dependency as determined by the model contained in this report, but it is not permitted to more than double intrinsic benefits.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07

AD-A043 834 5/9 14/1

AIR TRAINING COMMAND RANDOLPH AFB TEX DIRECTOR OF OPERATIONS ANALYSIS

The TPR Process and Impact of (U) Fluctuations.

DESCRIPTIVE NOTE: Final rept. JUL 76 54P Petrick.George S. :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force training. \*Cost analysis. \*Recruits, \*Air Force training, \*Wost analys \*Recruits, \*Air Force personnel, Military requirements, Enlisted personnel, Instructors IDENTIFIERS: Fluctuations, Trained personnel requirements (U) (U)

The objectives were: (1) determine the cost of trained personnel requirements (TPR) fluctuations; (2) identify authorization tolerances with which the MAUCOMS could live: (3) identify areas of responsibility in the TPR environment: and (4) propose solutions that would enable Air Force and ATC to reduce TPR environment; and (%) proposal state that would enable Air Force and ATC to reduce TPR turbulence. The principal cost of TPR turbulence is associated with technical training enlisted instructors. Additional costs, in the form of loss of investment, are incurred when training has been rendered but is no longer needed. Costs associated with base operating support and contract services are considered negligible when Compared with instructor turbulence costs. Total dollar cost artributed to TPR variations in FY 76 is about \$8.8 million. An additional cost in mission degradation associated with undermanning was found to be 262 man-years. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A043 360 5/1 14/1 5/3

CENTER FOR ECONOMIC ANALYSIS FAIRFAX VA

A Compilation of Methodological Problems Confronting the Air Force in the Fields of Economics and Management. Phase I.

DESCRIPTIVE NOTE: Interim scientific rept..

77 50P Bloch.Howard R. :Marlin.
Uames W. . Un.:Wiest.Philp R. :Snavely.
William P. :
CONTRACT: AF-AFOSR-3168-77 PROJ: 2313 TASK: A3 MONITOR: AFGSR TR-77-0992

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Economic Basic Research Problems. DESCRIPTIORS: \*Assource management. \*Cost effectiveness. \*Air Force research. \*Research management. Problem areas. Military requirements. Effectiveness. Assessment. Standards. Productivity. Nork measurement. Motivation. Personnel management. Weapon system effectiveness. Derational effectiveness. Cost estimates.

Wanagement planning and control. Economic analysis.

Air Force planning. Decision making. Allocations IDENTIFIERS: DENTIFIERS: \*Measures of effectiveness. Priorities. WUAFOSR2313A3. PE61102F

Interviews were conducted with Air Force anterviews were conducted with Air Force decision-makers and analysts of all ranks and from all levels of organization. The purpose was to ascertain the basic research needs of the Air Force in the fields of economics and management. Force in the fields of economics and management. Over one hundred separate research requirements were identified. The daps in knowledge which were most often mentioned were in measurement output so as to determine effectiveness of programs, is measuring costs, in determining the most effective management techniques and motivations, in determining proper variable. In which to make projections, and in color, criteria by which to judge programs. A number of questions posed appear answerable by the research community. (Author) (U)

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RAND CORP SANTA MONICA CALIF

Avionics Data for Cost Estimating. (U)

MAR 77 20P Armstrong.Bruce E.; REPT. NO. P~5745-1

### UNCLASSIFIED REPORT

Availability: Microficne copies only.

SUPPLEMENTARY NOTE: Presented at DoD Cost Analysis Symposium (1976) Held in Airlie, Va., on 14-17 Nov 76.

DESCRIPTORS: "Avionics, "Cost estimates. "Tactical aircraft, "Electronic equipment, Data bases, Technology, Costs, Electronics, Data acquisition, Department of Defense IDENTIFIERS: AN type equipment

Avionics cost has been a continuing problem to the defense cost analyst. The various services and the Office of the Secretary of Defense (OSD) have sponsored numerous avionics data collection efforts, as well as funding various companies to develop cost models and cost estimating relationships. To mention a few, both the Air Force and the Navy, and research firms such as General Research Corporation (GRC). Research Management Corporation (GRC), and Institute for Defense Analyses (IDA), have all been involved at one time or another with efforts to develop the avionics cost estimation methods and a supporting data bank. The reason for this level of effort is that the costs of avionics account for nearly 30 percent of the total costs of fighter aircraft and a significant amount in most other aircraft types. Yet, because of rapid technological change, typically small production runs, and poor historical cost information, reliable prediction of avionics costs has been impeded. This paper discusses a recent Rand study sponsored by OSD/Director of Planning and Evaluation (DP and E) which had ine objective of creating an avionics data base for tagtical aircraft.

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LEGISTICS MANAGEMENT INST WASHINGTON D C

Logistic Support Cost Commitments for Life Cycle Cost Reduction,

JUN 77 45P Co.lins.Daight E.: REPT. NO. LN1-75-1/5 CONTRACT: SD-321

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Life Cycle Costs. \*Cost analysis. \*Logistics management. Reduction. Design to cost. Logistics support. Weapon systems. Department of Defense. Cost models. Undertainty. Assessment. Risk analysis. Statistical analysis. Reliability. Waintainability. Test methods

In its efforts of recent years to reverse the trend of increasing operating and support (0 and S) costs of weapon systems and equipment, the Department of Defense (DoD) has begun to use several new Contracting techniques to transmit Government cost reduction coals to the Contractor during equipment development and production. One of these techniques is the Logistic Support Cost (LSC) Commitment. The LSC Commitment has three primary elements: (1) a target logistic support cost (TLSC) defined in terms of a cost model framdwork. (2) a field verification test procedure, and (3) a contract remedy or price adjustment based on verification test results. This report summarizes results of a recent study which investigates the incentives conveyed by the LSC Commitment and the risks accompanying its implementation. It focuses particularly on the impact of statistical risk on the interpretation of verification test results, and presents guidance for structuring future LSC Commitments. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A042 938

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Special Termination Costs Clause. ASPR 8-

DESCRIPTIVE NOTE: Study project rept., MAY 77 30P Vachon.Raymond F. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost effectiveness. \*Contract administration, Management planning and control, Military budgets, Law(durisprugence), Military

procurement, Regulations
IDENTIFIERS: \*Termination costs

urpose of this study project is to assist Syram Managers and/or other interested persons in becoming familiar with the use of the Special Termination Costs Clause as stated in paragraph 8-712 of the Armed Services Procurement Regulation. Much of the material contained in the report was obtained by interviewing knowledgeable Regulation. Much of the material contained in the report was obtained by interviewing knowledgeable persons who have worked with the clause and by reading numerous reports and other do' mentation on the subject matter. The clause has been used in contracts only to a limited extent by the Services, primarily the Air Force. The major obstacles to increased use of the clause appear to be the small number of contracts which meet the required dollar criteria as stated in the ASPR and the possibility of yiolating the Anti-Deficiency Act if funds are not available to pay termination costs. The opinion of most agencies working with the clause, is that it is not necessary to have the funds cited in the clause prior to the determination to terminate the contract for the convenience of the Government. The report recommends that Program Managers make maximum use of the special termination Costs Clause when appropriate. If used, the supporting budget office should be informed of the potential liabilities over and above the dollars obligated: (Author) UNCLASSIFIED

DDC REPORT BIBLIUGRAPHY SEARCH CONTROL NO. ZOMOT

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DEFENSE SYSTEMS WANAGEMENT COLL FORT SELVOIR VA

Using Cost Analysis to Break the Overrun

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DESCRIPTIVE AGTE: Study project rept..
MAY 77 100P Grimm.Richard William :

UNCLASSIFIED REPORT

DESCRIPTORS: •Cost aralysis. •Cost overruns. Contract acministration. Systems management.
 Parametric analysis. Problem areas. Control. Growth(General), Cost estimates, Error

analysis

This report is a treatise on cost analysis and cost management intended primarily to orient personnel unfamiliar with them. Major factors contributing to program cost problems are highlighted. The to program cost problems are iniquities. The results of several studies on cost growth are portrayed, and several recommendations are made for controlling cost. Cost analysis responsibilities and methodology are presented in detail and examples are used. Parametric methodology is emphasized heavily as this is the government's primary technique. Analytical and institutional problems are discussed and on-going research to solve them is described, the report closes with a discussion of how the program director and cost analysts can work together to help break the overrun habit.

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AD-A042 933 15/5 14/1

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Initial Operational Support: An

Alternate Approach.

DESCRIPTIVE NOTE: Study project rept., APR 77 43P Smith.John L.;

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems. \*Army procurement. DESCRIPTORS: \*Meanon systems, \*Army procurement, 
\*Cost analysis, Logistics management, Logistics 
support, Maintenance management, Maintainability, 
Reliability, Life cycle costs, Aircraft 
maintenance, Cost effectiveness, Contract administration IDENTIFIERS: Program management

The purpose of the project was to provide a rationale for recycluating the manner in which weapon systems are introduced into the operational inventory. An alternative approach to this is then phoposed. The suggested alternative was based on the author's experience in fielding three systems in the author's experience in fielding three systems in two separate programs from a position within the acquisition organization. Facts, assumption, and conclusions necessary to support the proposed alternative are commented by reference to separate, independent research sources. The resulting approach is an amalgae from the programs worked directly by the author and the experience of associates in similar endeavors. (Author) (8)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOVOT 5/1

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ARMY CONCEPTS ANALYSIS AGENCY BETHESDA MD

Cost Effectiveness Analysis of Bonuses and Reenlistment Policies (CEABREP).

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DESCRIPTIVE NOTE: Final rept..
AUG 77 203P Ancers
Anthony K. :Plourde.Rene : Ancerson.Calvin M. : Holtry. REPT. NO. CAA-SR-77-10

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Reenlistment, \*Computerized simulation, \*Personnel retention, \*Cost analysis, Army personnel, Manpower, Specialists, Trade off analyses, Personnel management, Policies, Decision making, Allocations, Ellitary force levels, Forecasting, Motivation, Demography, Money, Army planning, Cost effectiveness, Mathematical prediction, peacetime, flow charting IDENTIFIERS: \*Bonuses, \*Williamy occupational specialties **Specialties** 

To manage the ponus program effectively, the Army must first accurately predict personnel imbalances by Military Occupational Specialty (%OS) and then estimate the Denus level and/or policy decisions which would be necessary to alleviate potential disparities. The CEABREP study addresses both the force projection process and the factors influencing reenlistment behavior. The report consists of six chapters supported by technical appendices. Chapter 1 provides introductory material and background. The methodology formulated to analyze the reenlistment environment is the subject of Chapter 2. MOS-unique continuation rates which were developed to improve the accuracy of force 2. MUS-unique continuation rates which were developed to improve the accuracy of force projections are discussed in Chapter 3. An analysis of retention factors is in Chapter 4 and alternatives to bonuses are identified in Chapter 5. The final chapter of this report presents the major Observations. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONG?

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PRESEARCH INC ARLINGTON VA

Summary of Cost-Benefit Study Results for Navy Alcoholism Rehabilitation Programs.

Borthwick.R. B. :

DESCRIPTIVE NOTE: Final rept...
JUL 77 41+ Bortna
REPT. NO. PI-TR-346
CONTRACT: N00123-77-C-0910

UNCLASSIFIED REPORT

DESCRIPTORS: \*Rehabilitation. \*Alcoholism. \*Cost benefits, Personnel management, Policies, Economic analysis, Naval personnel, Marine Corps personnel. Replacement, Drug abuse. Personnel retention. Careers, Therapy. Effectiveness, Residential section. Health care facilities, Naval shore facilities

This report summarizes the results of the cost-bener't studies carried out for the Department of the Navy's (DoN) Alcoholism frevention program (NAPP). This work focuses on the effects of the resident treatment programs on replacement, hospitalization, accidents, replacement, hospitalization, accidents, junisprudence and productivity aspects of Navy and Marine Corps operations. Aggregated economic costs and losses due to alcoho; abuse in the Dox are estimated and presented. The report Concludes are estimated and presented, the report concludes that the existing resident treatment effort for alcoholics is highly cost effective and in the best interests of the Navy and Marine Corps. Further, the annual economic losses to the DoN are of such magnitude that Continued efforts toward alcoholism prevention and earlier identification of alcoholics are warranted. (Author) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

The Impact of Independent Cost Analyses on DCD Acquisition Management.

(0)

DESCRIPTIVE NOTE: Study project rept..
MAY 77 45P wrobel.dohn Eugene . dr:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis, \*Management planning and control, Acquisition. Cost estimates. Defense planning. Decision making, Military budgets. Inflation(Economics)

(U)

The purpose of this study was to review the impact of the 200 policy requiring Independent Cost Analyses (ICA). The study consisted of interviews with selected acquisition and cost analysis managers as well as a review of the current literature, including US General Accounting Office reports. Increased system costs have been attributed to poor cost estimating. Since the inception of ICAs, cost growth has been reduced. This reduction would seem to result from the increased emphasis on cost estimates directly related to the nigh visibility given to the ICA. The study concludes the program manager can use the ICA to offset stresses inimical to his program, and notwithstanding the continued need for better estimating, major improvements in cost control will now have to come from other areas of management.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Acquiring Affordable Weapons Systems.

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DESCRIPTIVE NOTE: E: Study project rept.. 87P Singer,Robert A.; MAY

UNCLASSIFIED PEPORT

DESC':PTORS: \*Defense systems, \*Weapon systems.
\*Systems management, \*Military planning.
\*Logistics planning, \*Cost analysis, \*Cost models.
Lift cycle costs, Rel'ability, Military
procurement, Maintairability, Acquisition,
Manpower, Data bases
IDENTIFIERS: Systems acquisition, Program
mai lyment, Affordable weapon systems,
VA:OSC(Visibility and Management of Support
Costs). Visibility and management of support

Costs), Visibility and management of support

This project attempts to examine the approaches being taken to reduce the D and S cost implications of systems being acquired, and to examine the potential effectiveness of these appaches. The project was colficted by cerviewing key people within OSD and the services currently participating in outyear cost management, by escarching recent available literature on the subject, and by integrating the results into a capsule summary and evaluation of current activities. A series of efforts are ongoing. New draft management directives have been current activities. A series of efforts are ongoing. New draft management directives have been prepared in 03D and the Services aimed at infusing affordability considerations more heavily throughout the acquisition process. O and S cost data banks are being constructed by the Services to provide weapon system and subsystem cost visibility. Innovative procurement procedures and affordability management techniques are being used succes of the one of the new system acquisitions. Considerably nice of the procurement procedures are successful on the new system acquisitions. Considerably nice of the new system acquisitions of the new system acquisitions of the new system acquisitions. affa.: 3 required refore more affordable weepons eystems recome reality. This includes integration and increasing responsiveness of diverse organizational units, improvements in cost estimation, building of a suitably detailed cost data base, 24 t consideration of logistics support, (1

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it in a manner which makes the cost track easier to

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DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Training Package: Foreign Military Sales (FMS) Agreements (Planning and Costing).

DESCRIPTIVE NOTE: Study project rept..

P Davis.William E.: MAY 77 68P

UNCLASSIFIED REPORT

DESCRIPTORS: \*Management aining, \*Military procurement, \*Cost estimates, Army training, Cost analysis, Curriculum, Systems analysis, Systems management, Weapon, Systems, Acquisition, Military forces(Foreign). Costs. Reports. Managemu

planning and control
IDENTIFIERS: \*Training management, Program management. Foreign military sales

The purpose of this paper is to analyze Training and Doctrine Command (TRADDC) curriculum development directives and DOD directives related to systems acquisition. The author seeks to show the similarities of the procedures and processes used in each, and to indicate how more accurate training cost estimates are possible through thorough training requirement analysis. The study identities cost estimates are possible through thorough training requirement analysis. The study identifies documents that are related to cost reporting which can be used in conjunction with the curriculum development directives to provide a valid basis for more accurate cost estimating where training costs must be included in a package type Foreign Military Sales (FMS) caso. The study takes advantage of the author's experience, gained in an on-going program, to show how pitfalls may be avoided, where advanced planning must be on-going program, to show how pitfalls may be avoided, where advanced planning must be accomplished, and required funds, fac lities, equipment, personnel, and other training read items projected. A brief planning model is provided. Also included are sample forms which will be useful in doing the training analysis. formulating the overall training plan, and organizing it is a marchy which will be approximated.

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07 14/1

AD-A042 628 13/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Corrosion Costs of Air Force and Army Facilities and Construction of a Cost Prediction Mudel. (U)

DESCRIPTIVE NOTE: Final rept. 1 Jul 75-30 Oct 76, JUL 77 71P Hahin, Christopher; REPT. NO. CERL-TR-M-224 PROJ: 4A752719AT41

MONITOR: AFCEC

TR-77-17

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Construction materials, \*Corrosion, \*Cost analysis, Mathematical models. Air Force facilities, Army, Military facilities, Soils, Costs, Construction, Electrical conductivity, Air pollution, Energy consumption, Climate, Topography, Predictions, Water pollution IDENTIFIERS: WU001, AST41, PE62719A (U)

The facility maintenance organizations of several Air force and Army installations were analyzed to determine the percentage of their direct maintenance, repair or replacement offorts that were corrosion-related. Also included were the costs of designing and inspecting corrosion-related construction projects. This raw data was processed and correlated with climatological, geographic and environmental statistics to devalop a predictive corrosion cost model. The resulting empirical equations are able to predict facility corrosion costs and classification with reasonable accurac, as a function of installation dimensions and capacities, and readily obtainable weather, soil and air quality and readily obtainable weather, soil and air quality data. (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A042 460 5/1 14/1

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RAND CORP SANTA MONICA CALIF

Introduction to the USAF Total Force Cost Model.

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DESCRIPTIVE NOTE: Interim mept
JUN 77 68P Vassey. JUN 77 68P Va REPI. NO. R-2098-AF CONTRACT: F49620-77-C-023 Vassey.H. G. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force budgets, \*Cost estimates. \*Air Force operations, \*Air Force planning. \*Economic models. Computerized simulation. Forecasting. Systems analysis. Advanced systems. Manpower, Air Force procurement IDENTIFIERS: Total force Cost model. Military force structure.

(U) force structure (U)

Designed to produce tire-phased total manpower and dollar requirements estimates for 15-year projections of alternative future USAF forces and support structures, the USAF Total Force Cost Model--sometimes referred to as the FORCE model-is currently operating on computers in the Air Staff Cost and Economic Analysis Division. Directorate of Managerent Analysis. Comptibiler of the Air Force. This report presents an overview of the model, including its basic purposes and its relationship to the planning and programming process. Some examples and Designed to produce time-phased total manpower and basic purposes and its relationship to the planning and programming process. Some examples and suggested applications are presented. Only the general features of the model and the methodology it employs are discussed. The FORCE model has potential for application in analysis of future forces for research and development planning: studies of alternative weapon systems for mission-oriented subsets of the force; and analysis of alternative future basing plans, training structure, or other future basing plans, training structure, or other support issues. (Author) (U)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A042 405 5/1 9/2

NAVAL SURFACE WEAPONS CENTER DAHLGREN LAB VA

Computer Model for Life Cycle Costing. User's Guide.

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DESCRIPTIVE NOTE: Technical rept.
MAY 77 52P McLaughlin
REPT. NO. NSWC/DL-1R-3645
MONIT.: GIDEP,GIDEP 5076-0150 DESCRIPTIVE NOTE: McLaughlin.Wayne : 5076-0153.195.20.00.00-W4-

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Mathematical models, Computer programs, FORTRAN, Weapon systems, Acquisition, Cost analysis, Algorithms, Data processing IDENTIFIERS: Interactive systems

This report provides instructions for operating the computer program which models life cycle costs for equipment acquisitions. The program, written in the Fortran IV Extended programming language, was implemented on the CDC 6700 computer under the SCOPE 3.— operating system at the Naval Surface Measons Center, Dahlgren, Virginia, in January, 1977. Designed for use from an intercom terminal in an interactive manner, the model has a wide variety of built in capabilities which can greatly facilitate the task of performing life cycle cost analysis. A detailed discussion concerning the use of each feature is presented. This is then expanded into an overall description of the program's operating sequence, to aid the potential user in This report provides instructions for operating the operating sequence, to and the potential user in ascertaining if the model can be used to meet his specific needs. The remainder of the report is devoted to the actual operation of the program. devoted to the actual operation of the program. Execution involves the sequential display of requests by the terminal for input, followed by responses typed by the operator. Thorough coverage is given to the choices available to the user in estituation, including examples of input and output. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AD-A042 385

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BECHTEL CORP SAN FRANCISCO CALIF

Coal Gasification Study Handbook.

(u)

DESCRIPTIVE NOTE: APR 77 103P Final rept. APR 77 103P CONTRACT: N68305-76-C-0009 PROJ: F57571 TASK: ZF5757100

MONITOR: CEL CR-77.014

# UNCLASSIFIED REPORT

Availability: Microfiche copies only. SUPPLEMENTARY NOTE: ee also Rept. no. SUPPLEMENTARY NOTE: ee also Rept. no. CEL-CR-77.013. AD-A041 860.
DESCPIPTORS: \*Coal. \*Coal gas. \*Pollution abatement. \*Gas generating systems. \*Cost analysis.
Emission. Boilers. Sulfur. Handbooks
IDENTIFIERS: \*Coal gasification. Fuel gas.
WU01015. PEGZESN

WU01015. PE62765N

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The purpose of this hardbook is to provide: first, a procedure for evaluating the costs of a coal gasification plant in terms of the capital investment and operating costs. Trese are to be sensitive to several parameters defining coal, fuel gas, and sulfur emissions; second, a procedure for the derating of Navy base boilers, to reflect the change in performance resulting form derating of Navy base boilers, to reflect the change in performance resulting from introduction of fuel gas in place of coal or oil. The gas plant analysis is based in part on a detailed analysis of the gas treatment section of the plant. The remaining part of the riant performance is based on conventional stoich ometry and near approach to equilibrium in the gas production section. The boiler derating method is based on observations of the relative contribution to heat transfer made by radiation and convection, and on conventional relations describing these transfer processes. (Author) (0)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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OFFICE OF THE PROJECT MANAGER SELECTED AMMUNITION DOVER N

A Computer Program for Tracking Cost/ Schedule Control Systems Criteria. (U)

DESCRIPTIVE NOTE: Final rept., JUN 77 98P Smith, REPT. NO. PMSA-2-5 Smith, Louis M. ;

# UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: \*Cost models, \*Scheduling, \*Control
systems, \*Computer programs, Mathematical models,
Digital computers, Contract administration, Change
detection, Tracking, FORTRAN
INTERES: Cost control, Schedule control,
CDC-6500 computers, CDC-6600 computers

Report describes a computer program that provides a means for tracking contractor's performance where Cost/Schedule Cortrol Systems Criteria are utilized. The program was specifically designed for the CDC 6500/6600 computer at USA Armament Research and Development Command. Dover.

Input data are those normally found in a cuntractor's Cost Performance Report. Program output is a series of Cost and Schedule Performance Index graphs, a summary variance graph, and a set of tables. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AD-A042 264

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DOTY ASSOCIATES INC ROCKVILLE MO

Software Cost Estimation Study. Volume I. Study Results.

(0)

DESCRIPTIVE NOTE: Final technical rept. 23 Feb 76-23 Feb 77.

JUN 77 212P Herd.Janes H. :Postak
N. :Russeli.William E. :Stewart.Kenneth R. :
REPT. NO. IR-151-vol-1
CONTRACT: F30602-76-C-0182 Herd.James H. :Postak.John

TASK: 14
MONITOR: RADC TR-77-220-\01-1

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programs. \*Cost estimates. \*Cost models. Control. Cost analysis. Command and control systems. Business. Scientific research. Data reduction. Reliability. Development tests.
Adverse conditions. Impact
IDENTIFIERS: WURADC55811404. PE62702F

(U)

The study identified factors that have an adverse effect on software cost estimates, determined their impact on software cost estimates, discussed methods for controlling the effect of these factors, and veloped an overall methodology for estimating the costs of software development. In addition to a generalized model for estimating software development costs, separate models have been generated for estimating the development cost of command and control, scientific, utility, and business software. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A042 167

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KCM-WRE/YTD SEATTLE WASH

Environmental Planning for the Metropolitan Area Cedar-Green River Basins. Washington. Part II. Urban Crainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin.

DEC 74 381P CONTRACT: DACW67-73-C-0022

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SUPPLEMENTARY NOTE: See also Part 2, Appendix C,
AD-A042 168. Original contrins color plates: All
DDC reproductions will he in black and white.
DESCRIPTORS: \*Drainage, \*Basins(Geographic),
\*U.ban planning, \*Cost analysis, Runoff, Flood
control, Maintenance, Investment expenditures,
Rivers, Puget Sound, Washington(State)

The Urban Runoff and Basin Drainage The Urban Runoff and Basin Drainage
Report presents a comprehensive plan for meeting
the existing and long range urban drainage needs
within the Green River Basin. The study
recommendations address drainage facilities, capital
cost, methods of financing and institutional
arrangements for effective drainage management. The
recommended plans are conceptual and are intended for
use by local governments as a guide in the future
planning of drainage systems. UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO? 5/1

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KCM-WRE/YTG SEATTLE WASH

Environmental Planning for the Metropolitan Area Cedar-Green River Basins.
Washington. Part II. Urban Drainage
Study. Dendix A. Regional Sub-Basin
Plans. volume 1. Cedar River Basin.

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DEC 74 530P CONTRACT: DACW67-73-C-0022

UNCLASSIFIED REPORT

Availability: Microfiche copies unly.
SUPPLEMENTARY NOTE: See also Part 2. Appendix A.
Volume 2. AD-A042 167. Original contains color
plates: All DDC reproductions will be in black and white.
DESCRIPTORS: \*Drainage. -Basins(Geographic) \*Urban planning. \*Cost analysis. Runoff. Flood control. Maintenance. Investment expenditures. Rivers. Puget Sound. Washington(State)

The Urban Runoff and Basin Drainage Report presents a Comprehensive plan for meeting the existing and long range urban drainage needs within the Cedar River Basin. The study recommendations address drainage facilities, capital cost, methods of financing and institutional arrangements for effective drainage management. The recommended plans are conceptual and are intended for use by loca' governments as a guide in the future planning of drainage systems. (4)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 14/1

1/3 AD-A042 134

BOEING VERTOL CO PHILADELPHIA PA

Product Improvement Program Evaluation. (U)

DESCRIPTIVE NOTE: Final cept. 17 May 76-17 Feb 77,
 JUN 77 117P Slowitt.Stephen J.;

REPT. NO. D210-11146-2
CONTRACT: DAAJ02-76-C-0020
PROJ: 1F262209AH76
TASK: '00
MONITOR: USAAMRDL TR-77-17

UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft, \*Modification, \*Cost effectiveness, \*Operational effectiveness, Methodology, Aircraft maintenance, Reliabi', ty, Computer programs, IDENTIFIERS: WU146EK, ASH76, PE62209A

This report presents the results of a study to develop an analysis technique for evaluating the cost and operational effectiveness of potential aircraft modifications that affect reliability and maintainability. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

8/6 14/1 AD-A041 937 13/2

ARMY ENGINEER DISTRICT CMAHA NEBR

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex K. Regional Water Supply. Appendix.

DESCRIPTIVE NOTE: Final rept. JUN 75 444P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Metropolitan Region of Omaha. Nebruska-Council Bluffs. Iowa. Review Report on the Missouri River and Tributaries. See also Volume 5. Annex L. AD-A041 955.

DESCRIPTORS: \*Water resources. \*Urban areas. \*Water supplies. \*Cost analysis. Municipalities. Planning. Geration. Legislation. Rivers. Nebraska. Iowa
IDENTIFIERS: \*Omaha(Nebraska). Council Bluffs(Iowa). Missouri River

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DDC REPORT BISLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A041 935 13/2 8/6 14/1

ARMY ENGINEER DISTRICT OMAHA NEER

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management.

JUN 75 246P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 5. Annex J. A041 936. Original contains color plates: All DDC reproductions will be in black and white. Report on Metropolitan Region of Omaha, Nebraska-Council Bluffs, Iowa. Review Report on the Missour: River and Tributaries.

DESCRIPTORS: \*Water resources, \*Urban aras, \*Waste water, \*Waste management, \*Cost analysis, \*Waste Water, \*Waste maigrament, \*Cost and yard Facilities, Land use, Sewage treatment, Runoff, Water treatment, Municipalities, Wastes(Industrial), Rivers, Nebraska, Iow IDENTIFIERS: \*Omaha(Nebraska), Council Bluffs(Iowa), Missouri River (U) (U)

The objective of the wastewater management study is to develop wastewater systems for the area which will satisfy best the various needs in the Omaha—Council Bluffs region. The process of daveloping alternative plans for water resource management must Consider many factors. (u) UNCLASSIFIED

DDC REPORT BIBL'DGRAPHY SEARCH CONTROL NO. ZONOT

AD-A041 933 P/6 5/1 14/1

ARMY ENGINEER DISTRICT CMAHA NEBR

Water and Related Land Resources.
Management Study, Volume V. Supporting
Technical Reports Appendix, Annex F.
Missouri Riverfront Corridor Land Use Plan and Program.

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JUN 75 125P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Metropolitan Region of Omaha. Nebraska-Council Bluffs. Iowa. Review Report on the Missouri River and Tributaries. See also Volume 5. Annex G. AD-A041 934. Original contains color plates: All DDC reproductions will be contains color plates: All DDC reproductions will in black and white.

DESCRIPTORS: \*Mater resources, \*Urban areas. \*Land use. \*Urban planning. \*Cost analysis. Economic analysis. Sociology, Recreation.

Housing(Deellings). Commerce. Transportation.
Rivers, Nebraska, Iowa

IDENTIFIERS: \*Omaha(Nebraska). Council

Bluffs(Iowa). Missouri River

This Land Use Plan and Program performs two functions: (1) describes the land uses which exist or have been planned for the 60 mile Missouri River Corridor from Harrison County, lowa to Cass County, Nebraska and: (2) it describes the capital improvements program and priorities: the tax benefits derived from public and private investments; a general evaluation of environmental social and economic impacts: the possible application of the joint Funding Simplification Act of 1974; and the cooperative administration and program management of the projects which this composite development plan recommends. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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BECHTEL CORP SAN FRANCISCO CALIF

Coal Gasification Study.

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DESCRIPTIVE NOTE: Final rept.
APR 77 111P APR 77 111P CONTRACT: N68305-76-C-0009

PROJ: F57571 TASK: ZF57571001

program, PE62765N

MONITOR: CEL CR-77.013

UNCLASSIFIED REPORT

CESCRIPTORS: •Cox: •Coal gas. •Cost analysis.
Naval shore facilities. Pollution abatement. Emission control, Costs, Economics, Furls, Fuel oil, Comparison IDENTIFIERS: Coal gasification, GASPLANT computer (U)

The general problem of providing fuel gas for Navy base facilities is studied. The intent is: first, to provide designs of a coal gasification plant producing 6x 10 to the 9th power Btu/day reactor output, based on two types of reactors; second, to conduct parametric studies leading to means for the costing of similar plants operating on different feedstocks; and third, to provide a method for estimating the change in boller rating which must follow the substitution of fuel gas for either oil or coal firing. The performance and economics given are based on core-ptual design methods. The economic results allow companison of fuel-gas and fuel-oil costs on the basis of the Navy's method of fuel-oil costs on the basis of the Navy's method of analyzing costs using 'Economic Analysis Handbook,' NAVFFC P-442, 1975. The costs are the sum of all ruture outlays discounted to the present but allowing escalation at different rates for utilities and feedstock over a 25-year production

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 14/1

AD-A041 798

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DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Interactive Computer Graphics: A Responsive Flanning and Control Tool for DoD Program Wanagement.

(0)

DESCRIPTIVE NOTE: Research rept..

JAN 77 56P Callahan.Joseph E.:
Roberson.Carlton F.:Perino.George H...Jr:
REPT. NO. DSYC-RR-77.1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Interactive graphics. \*Monagement planning and control. \*Executive routines. \*Cost analysis. Networks. Computer programs. Pert. Cathode ray tube screens. Display systems. Computer applications. Department of defense. State of the art. Feasibility studies IDENTIFIERS: \*Program management

(U) (U)

This report summarizes the methodology, conduct and findings of the Defense Systems Maragement College (DSMC) research study of Interactive Computer Graphics (ICG) as a tool for program management planning and control. The study was conducted in four phases to meet four objectives: to determine the feasibility of representing and interrogating a program/project network on a graphics console; to determine the feasibility of developing Console: to determine the feasibility of developing an Interactive Computer Graphics Networking System (ICGNS) software prototype for program management planning and control: to examine the affordability of implementing an ICGNS in the PVO; and to assess the state-of-the-art in industry and DDD regarding existing and/or proposed ICG managerial applications. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-4041 57: 5/3

WEST VIRGINIA UNIV MORGANTOWN BUREAU OF BUSINESS PESFARCH

Guidelines for Attracting Private Capital to Corps of Engineers Projects. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 77 226P Droese.G. Richard ; witt.
Tom S. ; Rovelstad.James M. ;
CONTRACT: DACW31-75-C-0077
MONITOR: IWR CR-77-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Business, \*Cost effectiveness, \*Management, Finance, Problem areas, Army Corps of Engineers, Recreation, Cost analysis, Profits, Regression analysis, Computer applications

This report reflects a study of concessionary operations at several Corps lakes located across the United States. The essential problem was to discern the policy and procedural means by which additiona: private capital could be attracted to meet the needs of nearly 400 million visitors who use recreation facilities at Corps projects. The researchers found that Corps concessionaires are researchers found that Corps concessionaires are small businesses and suffer the problems of all small business. particularly with respect to management inexperience. They found no single factor which influences profitability. The report conclusions dispute many of the commonly held assumptions about the factors critical to profitability. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A041 526 14/1

DECISIONS AND DESIGNS INC MCLEAN VA

The Art of Cost-Benefit Analysis.

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DESCRIPTIVE NOTE: Technical rept.. FEB 77 59P Fischhoff.Baruch : CONTRACT: N00014-76-C-0074, ARPA Order-3052

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Decision Research Corp., Eugene Ore., Rept. no. DR-76-10 and Perceptronics, Inc., Woodland Fills, Calif., Rept. no. PTA-1042-77-2. DESCRIPTORS: \*Cost benefits. \*Cost analysis Decision making. Acceptability. Value engineering. Trees. Judgetent(Psychology). Propability. Toxic hazards. Nuclear energy. Earthquakes

Proposals for large-scale government and private projects are increasingly coming under the scrutiny of the cost-benefit analysis, decision analysis, risk assessment and related approaches. This paper Presents a critical overview of such analyses. It discusses (1) their rationale: (2) their acceptability as quides to decision making: (3) the problems such analyses encounter: (4) now they may be misused; and (5) what steps are needed to increase their contribution to society. The dicussion is illustrated with a variety of examples crawn. In particular, from the evaluation of new technologies.

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DDC PEPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 5/1

AD-A041 508

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LOGISTICS MANAGEMENT INST WASHINGTON D C

Combat Vehicle System Operating and Support Costs: Guidelines for Analysis. (U)

JUN 77 96P Fiorello, Marco R. : Jones, Lester G. , Jr; REPT. NO LWI-75-1/3 CONTRACT: SD-321

# UNCLASSIFIED REPORT

DESCRIPTORS: . Cost estimates, .Life cycle costs. \*Combat vehicles, 'Military procurement. Cost analysis, Reports, Standardization, Costs, Logistics support. Comparison, Logistics planning, Defense planning, weapon systems. Acquisition. Management planning and control. Decision making (U)

The Department of Defense has placed new emphasis on examining the projected operating and support (9/5) costs of planned weapons and finding ways to reduce those costs. O/S cost analyses are now a major part of the cost review analyses are now a major part of the cost review conducted at each weapon procurement decis in meeting by the Defense Systems Acquisition Review Council (DSARC) and the DSARC's principal advisor on new system costs — the Cost Analysis improvement Group (CAIG). This report recommends guidelines for preparing and presenting estimates of the support investment (SI) and O/S costs of combat vehicle systems to DSARC. It provides a framework for objective comparison of SI and O/S costs of program, design, or support alternatives, using consistent methodologies and terminology A general methodology for SI and O/S cost—estimating is described, a standard cost element structure is defined, and specific requirements for presentation of SI and O/S cost estimates to DSARC are proposed. Standards for the presentation and documentation of those cost estimates are also recommended. estimates are also recommended. (u)

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DDC REPOPT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A041 497

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NORTHROP CORP HAWTHORNE CALIF AIRCRAFT DIV

Advanced Composite Cost Estimating Manual.

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DESCRIPTIVE NOTE: Final rept. 1 Apr 75-31 Mar 76.
AUG 76 54P LeBlanc.Donald J.: Lorenzana.J. :Kokawa.A. :Bettner.T. :Timson.

CONTRACT: F33615-75-C-3103

PROJ: 1207

ACTION : SOTINOM

TR-76-87-Vo1-2

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Composite materials. \*Cost estimates. \*Computer applications. Computer programs. Punched cards. Ainframes. Dutput. Input. Equations. Parametric analysis. User needs. Methodology. Wanuals, Prigramming manuals
IDENTIFIERS: Cost projections. %UAFFDL1207. prepagate

PE62201F

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IAC ACCESSION NUMBER: MCIC-100482
IAC DOCUMENT TYPE: MCIC -HARD COPY--IAC DOCUMENT TITE: MOIC -HARD COPY--Contents: I: Jut Forms: Keypunching Data Cards: and Estimating Equations.

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IAC SUBJECT TERMS: M--(U)COSTS, MANUALS, FABRICATION, COMPUTER PROGRAMMING, HONEYCOMB, FINISHING, FIBER REINFORCED CCMPOSITES .:

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DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

11/4 14/1 AD-A041 496

NORTHROP CORP HAWTHORNE CALIF AIRCRAFT DIV

Advanced Composite Cost Estimating Manual. Volume II. Appendix.

DESCRIPTIVE NOTE: FINAL PEPT. 1 Apr 75-31 Mar 76.
AUG 76 156P LeBlanc.Donald J.;
Lorenzana.J.; Kokawa.A.; Bettner.T.; Timson.

F. ; CONTRACT: F33615-75-C-3103 PROJ: 1207 MONTTOR: AFFOL

TR-76-87-Vol-2-App

# UNCLASSIFIED REPORT

Availability: Microfiche copies only. SUPPLEMENTARY NOTE: See also Volume 1. AD-A041 495. 495. DESCRIPTORS: \*Composite material. \*Cost estimates. \*Computer applications, Computer program documentation, Computer programs. Programming manuals, Airframes, Fuselages. Parametric analysis, Skin(Structural), Programming languages, Subroutinas, Manuals, Methodology IDENTIFIERS: MUAFFDL1207, PEF '201F

Contents: Computer Program Listing: Permanent Input Data Sets; Job Control Language and Sample Estimates. UNCLASSIFIED

DOC REPORT DIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A041 495 11/4

NORTHROP CORP HAWTHORNE CALIF AIRCRAFT DIV

Advanced Composite Cost Estimating Manual.

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DESCRIPTIVE NOTE: Final rept. 1 Apr 75-31 Mar 76. AUG 76 88P LeBlanc.Donald J. ; Lorenzana.J. :Kokawa.A. :Bettner.T. :Timson. CCNTRACT: F33615-75-C-3103

1267 MONITOR: AFFOL 18-76-87-Ve1-1

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A041

DESCRIPTORS: \*Composite materials. \*Cost estimates.

\*Computer applications. Airframes. Manuals.

Punched cards. Methodology. Parametric analysis.

Standards. Labor. Honeycomb cores. Data bases

IDENTIFIERS: WUAFFDL1207. PE62201F

IAC ACCESSION NUMBER: MCIC-100481
IAC DOCUMENT TYPE: MCIC -HARD COPY-This program concentrated on the development of a computerized system that estimates the recurring costs associated with the fabrication of advanced composite detail parts and components. The system employs industrial Engineering Standard equations developed in the program to calculate standard boometon for the detail components. standard hours for the detail composite fabrication operations of layup, core preparation, part consolidation and finishing. With these standards as base, recurring costs are derived through the application of variance factors, improvement curve slopes and labor rates. (Author)

IAC SJEJECT TERMS: M--(U)COSTS. MANUALS. COMPUTER PROGRAMMING. FABRICATION. FIBER REINFORCEED COMPOSITES::

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7 5/1

AD-A041 467 14/1

ARMY WAR COLL CARLISLE BARRACKS PA

Implementation of Risk Assessment in the Total Risk Assessing Cost Estimate

TE: Study project rept.. 83P Venzke.Gene & DESCRIPTIVE NOTE: MAY 77 Venzke.Gene A. :

## UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: \*Cost estimates. \*Risk analysis.
\*Systems management. Probability distribution
functions. Research management, Cost moduls
IDENTIFIERS: TRACE(Total risk assessment Cost (U) estimate). Total risk assessment cost (U)

The concept of the Total Risk Assessing Cost Estimate (TRACE) was articulated by the ASA (R and D) on 12 July 1974. It is a means of explicitly accommodating the unforseen and unidentifiable costs which characterize research and development projects. The TRACE is required to possess the property that it is an estimate of the 50th percentile of the project cost probability distribution. Unfortunately, early attempts to implement the TRACE met with limited success. A formalized study was undertaken to develon adequate formalized study was undertaken to develop adequate techniques and two candidate methodologies emerged. One of the approaches, the TRACE Network Model. is extremely promising. The second technique, TRACE Risk Tabulation, can be improved upon by a TRACE Risk Tabulation, can be improved upon by a modification involving commuter generation of the imbedded probability distribution. There remain some problems in 'educating' users of the value of the TRACE, and the TRACE concept suffers from some inherent shortcomings. It is recommended that the new techniques for developing the TRACE be implemented, along with some ancillary actions to support the implementation and enhance the usefulness of the TRACE. (Author) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

A5-A041 435 1/5 15/5

AEROSPACE SYSTEMS INC BURLINGTON MASS

Report on Airport Capacity: Large Hub Airports in the United States.

(U)

DESCRIPTIVE NOTE: Final rept..

MAY 77 800F Gentry.Daniel E.: Howell.

Jack D.: Taneja.Nawal K.:

MONITOR: FAA-AVP 77-25

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Airports. \*Terminal flight faciliti
\*Air traffic. Capacity(Quantity). Urban areas.
United States. Centralized. Requirements. Cost
estimates. Statistical data. Ground support
equipment. Efficiency Ground traffic. Hubs.
Access. Civil aviation. Air transportation. Data ·Terminal flight facilities. (3)

This report describes an airport capacity analysis recently completed for the large hub airports of the United States. A total of 104 airports. United States. A total of 104 airports.
including thirty major air carrier airports, were
evaluated. Information was collected on existing
and planned airport capacities and facilities for the
airport airside, terminal, and landside components.
Data on ticket counters, curb frontages, bacauge
claim devices, security checkpoints, parking, gates,
runways, and many other items were obtained. This
report describes the study motivation, data sought,
survey methodology, and data soughs. survey methodology, and data sources. Preliminary findings of the study and outlines for future applications for the data collected are also discussed. Actual data Obtained from the airports are included within the report. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AIR FORCE LOGISTICS COPMAND WRIGHT-PATTERSON AFB OHIO DIRECTORATE OF MANAGEMENT SCIENCES

An Operational Version of the Depot Purchased Equipment Maintenance Allocation Model (DPEN MODEL). (U)

TE: Final rept.. 1637 Hillis.H. David :Milborrow. DESCRIPTIVE NOTE: JAN 77 Graham C. :Reed.Maurice L. : REPT. NO. Working Paper-90 MONITOR: AFLC 77-1

# UNCLASSIFIED REPORT

Availability: Microfiche copies only.

DESCRIPTORS: \*Logistics planning. \*Cost models.

\*Maintenance equipment. \*Maintenance management.

Cost analysis. Computer programs. Repair.

Allocations, Air Force budgets

IDENTIFIERS: Workloads. Depot purchased equipment (U)

maintenance

The purpose of this study is to provide a narrative description of a cost allocation model for Depot Purchased Equipment Maintenance. The model is configured for the Honeywell 635 Computer supporting remote terminals and batch rysote shop environment. Included are the computer programs and samples of the output products. Although this report is peculiar to the Air Force Logistics Command's Directorate of Materiel Requirements at WPAFB it is adaptable for other Cost allocation areas and can be done rather easily. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT

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CONSTRUCTION ENGINEERING RESEARCH LAS (ARMY) CHAMPAIGN

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Consolication of RPMA at Fayetteville, NC. Volume IV. General Procedures for Conducting BPVA Consolidation Studies.

(E)

DESCRIPTIVE NOTE: Final rept..
JUN 77 169P Brown.David M.:Nay.Joyce
L.:Kirby.Jeffrey G.:
REPT. NO. CEPL-TR-C-73-Vol-4

## UNCLASSIFIED PEPORT

SUPPLEMENTARY NOTE: See also Volume 1 AD-A033

754. DESCRIPTORS: \*Military facilities. \*Maintenance management. -Cost analysis. Centralized. North Carolina. Joint military activities. Feasibility Studies. Vanagement information systems. Resource management. Decision making. Economic analysis. Methocology. Management planning and control. Logistics Support. Paintenance ecuipment. Army. Air Force, Military planning, Manpower utilization. Mainterance. Cost effectiveness. Savinos

DENTIFIERS: Real property, Fayetteville(North Carolina), Fort Prago, Pope Air Force Base. Consolidation

(U)

This report presents general procedures for conducting a feasibility analysis for consolid real property maintenance activities (RPMA) at consolidating real property maintenance activities (RPMA) at military installations. The procedures are based on the cost analysis conduct, fluy the U.S. Army Construction Engineering Research Laboratory as part of the RPMA consolidation study for Fort Bragg and Pope AFB. Fayetteville, NC. The report presents the initial planning required and the concepts necessary to compare the current method of operation of the existing facilities engineering organizations with that of the procedures are based on the assumption that the Army is the lead service for the consolidation and that Army policies will be used. Although based on Army and Air Force RPMA data, the procedures should be generally RPMA data. the proceduras smould be generally amplicable to the Navy.

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOZOT

AD-A041 308

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DRC INVENTORY RESEARCH OFFICE PHILADELPHIA PA

Retail Stockage Policy under Budget Constraints.

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DESCRIPTIVE NOTE: Final rept.. JUN 77 64 REPT. NO. 1RG-241 Kaplan.Alan J. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Inventory analysis. \*Cost effectiveness. Propability, Stochastic processes, Optimization, Budgets, Retail, Inventory control, Retention(General), Computer Drugrams

Retail le 31 units are subject to budgetary constraints then they order support items. At the same time, the Stockage policies under which they operate do not attempt to relate stockage qualities to funds available. This study found that cutting reorder points was substantially more cost/effective than cutting operating levels in that there is a smaller impact on fill rates for each dollar out. smaller impact on fill rates for each dollar put. Modifying stockage list retention criteria worked very well for one DSU unit, and very poorly for another, and therefore could not be recommended generally despite its potential. In doing the study a Budget/Performance Evaluator (S/PE) was programmed. This is a Computer program which can project budgetary requirements and fill rates for any retail unit, using input data about each item canaged and the stockage policies to be followed. The input data is the same data needed for day to day management of the items. The B/PE differs from comparable programs already available in that it was designed to be accurate over the short term (e.g. 3 to 6 months). (Author)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT 5/3

AD-A041 115 13/2

Engineering Crawings

CORPS OF ENGINEERS DETROIT WICH DETROIT DISTRICT

Southeastern Michigan Wastewater Wanagement Survey Scope Study Design and Cost Appendix.

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DESCRIPTIVE NOTE: Final rept. 5562 MAY 74

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Criginal contains color plates: A:1 DOC reproductions will be in Diack and white. Design and Cost Appendix to AD-AC41 112. See also AD-AC41 116. DESCRIPTORS: \*waste management. \*Weste water. \*Cost analysis. Michigan. Sewage treatment. Technology. Municipalities. Industries. Engineering, Cost estimates, Tables(Data).

(U)

This report investigates tochnical design and cost considerations involved in the development of considerations involved in the development of wastewater management alternatives for municipal, industrial, and stormwater discharges to the surface waters of Southeastern Wichigan. Treatment technology choices, alternative system components, and the design and cost of total alternative systems are presented. Treatment technology choices are limited by strict design criteria which requires the minimum and control to the systems. timited by strict design criteria amich requires in highest walch quality levels attainable by existing technology. The systems which have been developed for this purpose include Advanced Waste Treatment. Independent Physical-Chemical Treatment, and Lang Treatment. Alternative System Components were developed from three alternatives which were based on the total use of one of the three technology choices. Alternative Components resulted when hystems serving individual subareas were compared. The combination of Supareas, each with a potentially different technological choice, resulted in the formation of multiple technology systems. The final design of multiple technology systems optimized on an engineering economic cost effective basis resulted in the forcation of some of the alternatives. 

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

13/13 5/1 AD-A040 742 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Military Construction Supervision and Administration Cost Forecasts.

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Final rept..
P O'Connor,Michael J.; DESCRIPTIVE NOTE: MAY 77 43P Thombson, Bruce ; REPT. NO. CERL-TR-P-80

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Construction, \*Management planning and control, \*Cost analysis, Mathematical prediction, Estimates, Regression analysis, Forecasting. Maintenance, Statistical analysis, Supervision, Administrative personnel, Rates, Variables, (U)

This' report presents a statistical model for forecasting supervision and administration (S and A) costs to aid the Directorate of Military Construction, Office of the Chief of Engineers, in establishing yearly limits for Corps of Engineers Division/District S and A rates. Data for 12 military construction Divisions/Districts from fiscal year 1963 (FY63) through FY76 were analyzed. A statistically significant model for 10 Districts was developed and verified using a retrospective test. S and A costs/rates for FY77 and FY78 were predicted as a function of the estimated work placement. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A040 447 14/1 5/1

LOGISTICS VANAGEMENT INST WASHINGTON D C

Ship operating and Support Costs:

Guidelines for Analysis. (U)

15/7

MAY 77 B9P Fior Robert S. :Wilk.Joseph R. : REPT. NO. LMI-75-1/2 CONTRACT: SS-321 Fiorello.Marco R. :Salzer.

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval vessels. \*Life cycle costs. Cost analysis. Acquisition, Ships, Naval procurement. Naval planning, Weapon systems.

(U) Planning programming budgeting The Military Departments and defense

contractors have for some time peen actively concerned about rising life cycle costs (LCC) of Defense weapon systems. Over the past two years. the Department of Defense (DoD) has placed new emphasis on examining the projected operating and support (O and S) costs of planned weapons and finding ways to reduce those costs. O and S cost analyses are now a major part of the cost review conducted at each weapon procurement decision meeting by the Defense Systems Acquisition Review Council (DSARC) and the DSARC's principal advisor on new system costs—the Cost Analysis Improvement Group (CAIG). This report recommends guidelines for proparing estimates of the support investment (SI) and D and S costs of support investment (SI) and 0 and 5 costs of ship acquisition programs and presenting them to the DSARC. It provides a framework for objective comparison of SI and 0 and 5 costs of program. design, or support alternatives, using consistent methodologies and terminology. A general methodology for SI and 0 and 5 cost estimating is described, a standard cost element structure for ships is defined, and specific requirements for presentation of SI and 0 and 5 cost estimates to the DSARC are proposed. Standards for the presentation and documentation of these cost presentation and documentation of these cost estimates are also recommended. These guidelines are intended to achieve consistent and effective preparation and documentation of SI and D and S cost estimates for major weapon systems. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A040 353 1/3 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Sensitivity of Army Helicopter Operating and Support Costs to Changes in Design and Logistic Parameters.

MAY 77 56P REPT. NO. LMI-75-1/4 CONTRACT: SD-321 Forster John D. :

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Helicopters, \*Cost analysis,
Reduction, Sensitivity, Cost estimates,
Reliability, Maintainability, Maintenance
personnel, Repair, Spare parts, ReplenishTent,
Army procurement, Logistics munagement, Data
bases, Resources, Allocations, Pilots, Flight
crews, Manpower
IDENTIFIERS: UTTAS, UH-1H aircraft, H-1
aircraft, AMH aircraft, AH-15 aircraft aircraft, AAH aircraft, AH-15 aircraft

This study assesses Army helicopter O and S costs and Support Investment (SI) costs in order to assure that the degree of hardware design and logistic parameter sensitivity included in cost estimates accurately reflects actual expenditure sensitivities. Army 0 and 5 cost data sources, methodology, and approaches are examined, and selected cost improvements isolated and evaluated. Strengths of the current costing structure are Strengths of the current costing structure are noted so that they can be carried forward and improved upon to assure accurate representation of new systems to the DSARC. O and S data sources reviewed include reliability, maintainability, and field reported cost data. The present methodology and approaches for both Baseline (Program Manager's) Cost Estimates (8CE) and Independent Parametric Cost Estimates (IPCE) are assessed. The dominant 0 and 5 (IPCE) are assessed. The dominant U and Scosts are found to be Manpower. Replenishment Spares, and Initial Spares. For Manpower and Initial Spares, simplified models are discussed which give OASD visibility into the critical sensitivities of Army helicopter 2 and Scosts. Of the parameters examined for the selected helicopters,

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AD-A040 209 5/3

NAVAL WEAPONS CENTER CHINA LAKE CALIF

Fuel Cost Escalation Study.

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DESCRIPTIVE NOTE: Summary rept. Jan-Oct 76. APR 77 '32P Kappelman.Ellis E. Stephen M. :Klever.Ruth F. :Cruise.D. R. : REPI. NO. NWC-TP-5558 MONITOR: GIDEP.GIDEP E076-0434.347.00.06 Kappelman. Ellis E. : Lee. E076-0434.347.00.00.00-x7-

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Energy consumption, \*Cost analysis, Coal, Natural gas, Petroleum industry, Electricity, Inflation(Economics), Naval planning, Fuels, Energy management, Economic DESCRIPTORS: analysis

A fuel and energy cost escalation study was conducted to provide a projection of the costs of fuel oil natural gas, coal and electricity to the year 2020. Upper and lower limits on probable prices are provided as well as most probable prices. These price projections were made based on examination of the nation's energy use. growth. resources, and police structure. (Author)

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UNCLASSIFIED DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NC. ZOMO7 DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MOT AD-A040 119 14/1 9/2 17/7 5/3 49-A040 060 5/3 FEDERAL AVIATION ADMINISTRATION WASHINGTON D C SYSTEMS RESEARCH AND DEVELOPMENT SERVICE CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN Computer-Aided Final Design Cost Estimating System Overview. Central Flow Control Automation Program Cost-Benefit Analysis. (U) DESCRIPTIVE NOTE: Interim rept.. P O'Conner.Michael J.; DESCRIPTIVE NOTE: Final rept.. ### NOTE: Inter ### 177 12P Botero,5. A.; REPT. NO. CERL-IR-P-81 PROJ: 4A762790AT41 TASA: 01 SEP 76 54P Thomas L.: REPT. NO. FAA/RD-77/53 Scotio. Carlo J. : Hannan.

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# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates, \*Computer aided design. Construction, Buildings, Maintenance IDENTIFIERS: \*Cost engineering, AST41, PE62790A, WU005 (U) This report presents an overview of a proposed computer-aided final design cost estimating system that will help cost estimators prepare final design construction cost estimates. Use of the system and the cost estimating concepts on which the system is based are discussed. Data development and maintenance strategies are proposed.

UNCLASSIFIED REPORT

DESCRIPTORS: \*Air traffic control systems. \*Cost analysis. Automation. Cost benefits. Air traffic. Energy consumption. Air pollution. Airports. Aircraft noise. Life cycle costs (U) This report contains on analysis of the benefits and costs associated with the Central Flow and costs associated with the Central Flow Control Automation Program. It presents the projected benefits and costs of both the current system and proposed system in terms of present-value dollars. Resultant benefit and cost differentials are discussed in terms of net present value and benefit-to-cost ratio. The sensitivity of these measures to major program uncertainty is described. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A039 922 5/4

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Foreign Military Sales (FMS): Costs. Benefits, and a New Approach. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 77 131P Parker, Jim MAR 77 131P Parker, Jinmie Roscoe ; Hawxhurst, Jack Michael ;

## UNCLASSIFIED REPORT

DESCRIPTORS: •Military assistance, •Cost benefits.
Cost analysis, Weapons, Exports, National
security, Planning programming budgeting.
International relations, foreign policy, United (U) States Government

An evaluation of the costs and benefits of the Foreign Military Sales (FMS) program is presented. Focusing on economic, military, and political factors, a comparative analysis reveals that the FMS program is beneficial to the United States at this time. However, if program controls are not improved the FMS program could become detrimental to national security. The recommended approach to improved program controls is more involvement of the State Department in DOD's involvement of the State Department in DOD's Security Assistance Planning, Programming, and Budgeting System (PPBS) and better coordination and analysis of data already available in the system. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A039 813 15/5 19/6

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Cost/Schedule Uncertainty Analysis for VADS Short-Range (RAM) Product Improvement (U)

DESCRIPTIVE NOTE: Final rept..
FEB 77 51P Trie^.Norman H.: FEB 77 51P REPT. NO. DRSAR/SA/N-55

# UNCLASSIFIED PEPORT

DESCRIPTORS: \*Air defense. \*Guns. \*Quality assurance. \*Cost analysis. \*Self propelled quns. Towed bodies. Aircorne. Airmobile operations. Reliability. Maintainability. Modification kits. Manuals. Simulation. Scheduling. Uncertainty IDENTIFIERS: Vulcan Air Defense System. Availability. M-163 quns. M-167 quns

A cost/schedule uncertainty analysis was conducted on the short range (RAW) product improvement program (PIP) for the Vulcan Air Defense System (VADS). The short range PIP addresses the product improvements to the self-propelled (M163) and towed (M167) VADS, changes to VADS, and towed the confirmation and documents to decimants and decimants and decimants and decimants and decimants. VADS support and test equipment, and documentation of those changes in the appropriate technical manuals. The venture Evaluation and Review Technique (VERT), a network analyzer, was used to simulate the VADS PIP from July 1, 1976 to the Completed application or all product improvements and the fielding of the new manuals and test equipment.

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DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Parametric Cost Estimating.

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DESCRIPTIVE NOTE: Project rept..

46P MAY 74 Devens.Robert J. :

UNCLASSIFIED REPORT

DESCRIPTORS: •Military procurement. \*Cost estimates. Materiel, Acquisition. Weapon systems. Management planning and control, Parametric analysis

This paper is a study in parametric cost estimating or what is commonly referred to as cost estimating relationships (CERs) used in the Department of Defense. It covers the background, data collection, basic methodology and the uncertainty involved in the Ls> of parametric type astimates. The information within has been extracted from various sources and includes the current method and means for obtaining data in addition to the uncertainty involved in parametric cost estimates. (Author)

#### UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 15/5

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RCA GOVERNMENT SYSTEMS DIV BURLINGTON MASS AUTOMATED

LOCAM 5. Volume II. Programmer/Users Manua! .

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DESCRIPTIVE NOTE: Final rept..

FEB 77 272P Russell E. : Scaperg. Ernest C. : Howe.

REPT. NO. C7-76-586-019-Vol-2 CONTRACT: DAAH01-76-C-1071

MONITOR: DREMI-D 77-2-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A073

580.
DESCRIPTORS: \*Maintenance management. \*Cost Programming manuals. Systems analysis. User needs. Deployment, Manpower, Life cycle costs.

(U)

Policies. Decision making IDENTIFIERS: Locam 5 computer program. User manuals. Availability

Logistics Cost Analysis Model 5 is an upgraded model of maintenance policies utilized by the US Army Missile Command and the US Army Weapons Command. Model progression included Missile Command, Weapons Command cost analysis of maintenance policies, and Logistics Cost Analysis Models 2. 3. and 4. It is an analytical computer program capable of representing field logistic support functions and flow. It computes life cycle costs and operational availability for alternate system support concepts. Output includes provisioning requirements and operational elements both tw numbers and cost. Variable dimensions are limited only by the computer. Parameters include extensive specification of factors for: deployment. equipment. Supply. maintenance. and test equipment. Sensitivity to all input factors is possible.

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DEC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A039 369

14/1 5/1 1/3

LOGISTICS MANAGEMENT INST WASHINGTON D C

Aircraft System Operating and Support Costs: Cuidelines for Analysis.

MAR 77 942 Betaque.Norman E. . Jr.: Fiorello, Marco R. ;

REPT. NO. LMI-75-1 CONTRACT: SD-321

UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Military aircraft. \*Cost estimates, \*Cost analysis. Standards. Reports. Fixed wing aircraft. Rotary wing aircraft, Acquisition. Costs. Weapon systems. Military procurement. Logistics support. Operation. Management planning and control. Decision making Decision making (U)

As weapon system life cycle costs have risen. DoD has placed new emphasis on examining the operating and support (D/S) cost impacts of planned new weapons and finding ways to reduce these costs. O/S cost analyses are now a major part of the cost review conducted at each weapon producement decision meeting by the Defense Systems Acquisition and Review Committee (DSARC) and the Cost Analysis Improvement Group. This report recommends guidelines for preparing and presenting estimates of the support invastment (SI) and D/S costs of fixed and rotary wing aircraft systems to DSARC. It provides a framework for objective comparison of SI and D/S costs of program, dusign, or support alternatives, using consistent methodologies and terminology. It also focuses in assessment of efforts to control downst n costs of weapon Systems in the acquisition phase. eneral methodology for SI and 0/S costrestimating is described, a standard cost element structure is defined, and specific requirements for presenting SI and 0 S cost estimates to PSARC are proposed Standards for the presentation and documentation of those cost estimates are recommended. (u) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A039 089

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AIR FORCE PACKAGING EVALUATION AGENCY WRIGHT-PATTERSON AFB

Evaluation of Polypropylene and Polyethylene Cushion wrap Materials.

(U)

APR 77 77 16P PTPT-77-17 Brown.Richard V. : REPT. NO

UNCLASSIFIED REPORT

DESCRIPTORS: \*Polyethylene plastics. \*Polypropylene. \*Packaging. \*Cushioning. \*Cost effectiveness. Mathematical models. Test methods. Acceleration. Stress testing. Static tests. Creep. Graphs

(U)

The objective of this study was to evaluate the static and dynamic cusmioning properties of Dolyethylene wrap material in relation to polypropylene wrap material and to determine the relative cost effectiveness of the two materials in package designs. Peak acceleration (Gs) versus Static Stress curves and 'Creep' Characteristics were developed for both materials. Using these data and a mathematical model, a cost analysis was accomplished. The results showed that To cost savings could be realized by substituting Polyethylene for polypropylene. However. polyethylene for polypropylene. Hawever, polypropylene in new pack designs when item fragility and static bearing stress considerations result in equivalent material costs. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A039 062 1/3 21/5 14/1

RAND CORP SANTA MONICA CALIF

Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary.

DESCRIPTIVE NOTE: Interim rept...
MAR 77 62P Nelson.d

MAR 77 62P Ne REPT. NO. R-2103/1-AF CONTRACT: F49620-77-C-0023 Nelson.J. R. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Executive summary of Rept. no. R-DESCRIPTORS: \*Gas turbines, \*Turbojet engines. \*Turbofan engines, \*Life cycle costs, \*Ccst analysis, \*Aircraft eng.ass, Aircraft maintenance, Depots, Spare parts, Procurement, Maintenance, Models, Commercial aircraft, Military aircraft,

Comparison

Presents a methocology for life-cycle analysis of aircraft turbine engines that weapon-system planners can use to estimate certain performance/schedule/cost tradeoffs early in the design and selection phase of acquiring this important subsystem. Prompted by the steadily escalating costs of engine acquistion and ownership, the study finds that engine life-cycle costs are much larger than and different from what had previously been realized. For example, depot costs alone will exceed procurement costs for a new engine with an operational lifespan of 15 years. Ownership-data availability being the most serious obstacle, the study recommends that the Air Force begin collecting and preserving disaggr-gated, homogeneous, longitudinal data at both depots and bases, associated with specific engine types. The findings also suggest numerous improvements in operations; and maintenance procedures that the Air Force could-adopt in the near term (the Air Force has already initiated studies in some of these areas). (Author) (U)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A038 761 14/1 14/4

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Cost Optimizing System to Evaluate Reliability (COSTER).

DESCRIPTIVE NOTE: Technical rept. Jan 75-Dec 76.

482 APR 77 Solomond.John P. :Marseglia. Grace A. REPT. NO. ECG#-4487

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Also available as condensed version in the Proceedings of the Reliability and Maintainability Paper (Annual) n1469 p385-390 1977. DESCRIPTGRS: \*Cost models. Failure(Electronics).

•Reliability(Electronics). Cost analysis. Electronic equipment. Specifications. Maintainability. Trace off analyses. Optimizati

Specific attention is currently being addressed to the overall Cost of the reliability specification as early as the development stage in an equipment's life Cycle. In order to assess the impact of changes in an equipment's reliability specification, it must be possible to predict and conitor the effects of such Changes o an equipment's reliability testing and field support costs. This research report elaborates the respective cost and reliability improvements resulting from six major reliability program efforts prior to an equipment's field deployment. The six efforts are: (1) the design revies: (2) the reliability prediction program: (3) the failure mode. effects, and criticality analysis (FMECA): (4) the parts program, in which MIL-SID and high reliability program. In which WIL-SID and high reliability parts are selectively used in place of commercially available parts: (5) the reliability testing programs: and (6) the Surnin test. One hundred sixty exhaustive 'policies' are analyzed with respect to their cost and resultant reliability. Each policy is a specific combination of the reliability program tasks imposed. The total policy cost is the sum of the reliability program Cost and the expected field support Cost after the equipment is deployed.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A038 654 5/11 5/9 5/0

CONTROL ANALYSIS CORP PALO ALTO LALIF

Cost and Retention Impacts of the Navy's Conus Recreation Program.

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PAGE

196

DESCRIPTIVE NOTE: Final nept. 1 Jan-31 Aug 75.
SEP 75 238P Lalchandani.Atam P.;
Humphreys.Thomas H.; Morey, Richard C.; Shyder
,David P.; deAndrade.Anthony B.;
CONTRACT: NO0014-75-C-0628

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Recreation, \*Naval personnal, \*Fringe benefits, \*Retention(General), \*Cost benefits, All volunteer, Morale, Recruiting, Naval training, Surveys, Naval shore facilities, United States, Retirement(Personnel), Taxes, Salaries, Sampling, Cost models, Questionnaires

This study is an evaluation of the benefits and costs associated with the Navy's shore-based Recreation Program. The evaluation is achieved by determining the cost effectiveness of the Overall Recreation Program as well as that for the fourtean individual Recreation Categories.
A significant by-product of the cost-effectiveness has been the estimation of income from and costs (operating as well as capital conts) of individual Recreation Casegories. The results are based on extensive information gathered from over 11,000 active duty eligible users as well as the managers of the Recreation Program at 16 diverse Navy Installations in CONUS. The Recreation Program has been evaluated not only in terms of its benefits to the Navy individual and dependents but also with respect to its overall impact on the Navy in terms of maintaining retention rates. This evaluation has been accomplished utilizing econometric endels that take into account established relationships between changes in income and changes in retention. Other key ingredients of these model are estimates of recruiting and training costs utilized in the retention cost calculations. In addition, optimization models for resource allocation across the Recreation Categories have been developed-

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07

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AD-A038 539 1/3 5/3

AVIATION DATA SERVICES INC WICHITA KANS

United States General Aviation.

DESCRIPTIVE NOTE: Final technical rept. 1959-1975. JUL 76 92P CONTRACT: DOT-FA76WA-3819 MONITOR: FAA-AVP 76-12

UNCLASSIFIED REPORT

DESCRIPTORS: \*Civil aviation. \*Cost analysis. Fuel consumption. Aircraft. Statistics. Tables(Data) (U)

This report presents data on general aviation cost of operations, aircraft value, fuel cost, plus fleet size and hours flown. This information is presented in historical time series and is tabulated by aircraft type and user category. The period 1959 through 1975 is covered by this report. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A038 477

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LOGISTICS MANAGEMENT INST WASHINGTON D C

OSCR System Applications Analysis.

DEC 76 95P Domin.Joseph S. :Webster. Craig A. : REPT. NO. LMI-76-CONTRACT: SD-321 LW1-76-15

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis, \*Management information systems, Life cycle costs, Maintenance management, Weapon systems, Logistics management, Air Force planning. Systems analysis

The Operating and Support Cost Reporting System, a management information system developed by the U. 3. Air Force, is analyzed to determine how well the cost information needs of specific decisions and analytical processes are satisfied by output from the OSCR System. The capabilities and limitations of the present OSCR system are identified and a plan for implementing a series of recommended improvements is presented. (U) (Author)

#### ULCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZGMOT

AD-A038 190 5/9

14/2

ILLINOIS UNIV AT URBANA-CHAMPAIGN SAVOY AVIATION RESEARCH

Simulators for Training and Profit.

DESCRIPTIVE NOTE: Technical rept.
JUL 76 8P Popkins.Charles 0.:
REPT. NO. ARL+76-10/AFCSR-76-5
CONTRACT: F44620-76-C-0009
PROJ: 2313
TASK: A4

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MONITOR: AFOSR

TR-77-0373

UNCLASSIFIED REPORT

DESCRIPTORS: \*flight simulators. \*Cost effectiveness. Aviorics. Flight training. Simulation. Military training. Skills. Reliability. Human factors engineering IDENTIFIERS: PE61102F. WUAFUSR2313a4

(U)

The use of simulators for training and profit is discussed in terms of the concept of cost effectiveness. Increased degree and fidelity of Simulation require greater equipment complexity and Cost. Data are presented that show a high negative correlation between cost and field reliability of avionics equipment. There is a paucity of research data on the relationships between simulator fidelity and transfer effectiveness. The results of the and transfer effectiveness, the results of the first and only recently Completed experiment to investigate transfer of initial flight training as a function of simulator cockpit motion are summarized. A rational basis for simulator selection and use developed by Jacobs-and Roscoe is presented. The need for research to establish relationships between transfer of training and physical Characteristics such as degree and fidelity of simulation is seen as critical to the widesoread future use of simulators for training and profit. (Author) (u)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A037 920 13/2 14/1 10/2

RAND CORP SANTA MONICA CALIF

The Move Towards Marginal Cost Pricing in Electricity, (U

JUN 76 21P Acton.Jan Paul ; REPT. NO. P-5673

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Public utilities. \*Electricity.
\*Cost analysis. \*Electric power distribution.
Energy conservation, Costs, Environments.
Foreign technology, United States, History (U)
IDENTIFIERS: \*Marginal cost pricing, Marginal
costs, Embargos (U)

It comes as no surprise to observers and participants in the American electricity scene that a lot of things have changed recently. But what is emerging more slowly is the relationship between some of these recent changes and the need to reform the basic manner by which we set the price of electricity. The purpose of this paper is to try to draw together some of the principal factors behind the movement towards rate reform and to discuss some of the fact needed to judg whether the suggestions are useful for a particular utility. Three main areas are: First, what has changed in American electricity that causes us to reexamine the pricing. Second, Mny is marginal cost pricing considered the most attractive alternative to present rate structures. Third, What do you need to know before deciding to implement marginal cost pricing in a particular utility.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO?

AD-4037 790 17/7 17/9 14/1

TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MASS

Airport Surface Traffic Control Tags Planning Aiternatives and Cost/Genefit Analysis.

(U)

DESCRIPTIVE NOTE: Final rept. Dec 75-Mar 75.
JAN 77 50P Rempfer.Paul S.:
REPT. NO. ISC-FAA-76-23
MONITOR: FAA-PJ 77-9

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Air traffic control systems. \*Search radar. \*Cost Denefits. \*Cost analysis. \*Airport radar systems. Runways. Taxiways. Airports. Automatic. Display systems. Costs.

Sensitivity (U)
IDENTIFIERS: TAGS(Tower Automated Ground Surveillance). Tower Automated Ground

Surveillance. (U)

The firuing of a cost/benefit analysis of the deployment of a new airport ground surveillance system If 3 (Tower Automated Ground Surveillance) are presented TAGS will provide a plan liew display of aircraft on the airports taxiways and runways like ground surveillance radar (ASDE); but unlike ASDE. TAGS will perform in heavy precipitation and automatically acquire and display aircraft flight identity. The findings indicate that a TAGS deployment of between four and nine systems is cost/beneficial. The development plan, system costs, analysis appraoch and sensitivity analysis supporting the findings are provided. (Author)

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AD-A037 790

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 14/1

AD-A037 434

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NOAH (U WATSON) ASSCCIATES INC ALEXANDRIA VA

Cost Benefit Analysis and the National Aviation System - A Guide.

MONITO: FAA-AVP 77-15

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DESCRIPTIVE NOTE: final rept..

FEB 77 232P Noah,J. W. ;Groemping.R.
A. ;Berterman,J. E. ;Greynolds,O. L. ;

mcFT. NO. FR-1191-FAA

CONTRACT: DOT-FA76WA-3769

## UNCLASSIFIED REPORT

DESCRIPTORS: •Civil aviation. •Cost benefits. DESCRIPTORS: «Civil aviation, «Cost benefits, Policies, Life cycle costs. Cost estimates, Air Aviation safety, Federal law, Standards, Air traffic control systems. Economic models, Economic analysis, Regression analysis. Linear programming. Monte Carlo method. Computations. Methodology (u)

This manual contains a discussion of cost-benefit methodology as it applies to the national aviation system, an explanation of selected values for potential use in Federal Aviation Administration studies, and the principles, concepts, and techniques appropriate to estimating benefits and life-cycle cost. In addition, parameters useful for valuing changes in capacity, delay, and aviation safety are presented.

#### UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A037 403 5/1 5/3

ARMY AVIATION SYSTEMS COMMAND ST LOUIS NO SYSTEMS ANALYSIS OFFICE

Cost of Terminating Contracts Study (COTCOS-11.

DESCRIPTIVE NOTE: Final rept.. NOY 76 44P Suzterfield.J. S.: REPT. NO. DPSAV-D-76-10 MONITOR: USAAVSCOM TR-76-44

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Contract proposals. \*Cost overruns. Army mindraft. Government(Foreign).
Procurement. Curve fitting. Graphics. Systems

approach
IDENTIFIERS' Contract termination liabilities (U)

This stud, had as its object the development of a curve of termination liability for use on Army aircraft contracts. An equally likely or average curve was graphically developed from five sets of Contract data. From this graphical curve and equation was developed. This equation provided an analytical curve that almost perfectly reproduced the original graphical curve. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20007

AD-A037 391 5/1

KETRON INC ARLINGTON VA

Bugers MPN Expenditure Estimating.

DESCRIPTIVE NOTE: Final nept. 2 Jul 76-28 Feb 77.
FEB 77 163P Augusta.Joseph H. :Bryan,
Judith A. :Golding.James E. :Hainline.Wark
A. :Nickel.Ronald H. :
REPT. NO. KFR-109-77
CONTRACT: N00014-76-C-1037

### UNCLASSIFIED REPORT

Availability: Microfiche copies only, DESCRIPTORS: «Naval budgets, «Cost estimates, «Naval personnel, Salaries, Cost overruns, Forecasting, Time series analysis, Computer DESCRIPTORS: programming. Subroutines. Computer applications. Flow Charting IDENTIFIERS: Disbursement

The Bureau of Naval Personnel has responsibility for controlling expenditure of the MPN funds and, in particular, for ensuring that this expenditure does not exceed the amounts armuaily authorized by the Congress. Forecasting the precise level and time of disbursements is a difficult task, Decause claims for payment arise at a great diversity of sites and reporting delays can vary considerably. To guard against the possibility of Overspending, the Bureau of Naval Personnel has refrained from planning to spend the full sum allotted it by Congress, holding some monies back so that it can deal with unexpected obligations. It is clearly desirable that these reserve assets be kept to a minimum consonant with a deSired level of protection against overexpenditure. The purpose of this study is to develop the analytical tools to estimate reliably the proper margin of safety that SuPers should maintain to guard against overspending. The analysis of financial data of the BA(1) and BA(2) accounts of the past three fiscal years show that BuPers has exerted close control in keeping a proper relationship between actual expenditures and planned obligations. However, further refirements and improvements in the methods and procedures are possible. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A037 38= 5/4 5/3

ARMY AVIATION SYSTEMS COMMAND ST LOUIS NO

Foreign Willtary Sales. Construction of a Replacement Price (Some Considerations. Problems and Potential Solutions).

DESCRIPTIVE NOTE: Technical rept... FEB 77 35P Gille.Warren M. . Jr: REPT. NO. USAAYSCCM-TR-77-13

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Williamy assistance, \*Williamy forces/fore nl. \*Cost estimates. Cost analysis. Spare parts. Replacement. Military procurement. Economic additions. Learning curves. Inflation(Economics: Rates. Indexes

Part one is a prief historical sketch of military desistance. 1947 to date, especially the transition from grant aid to foreign military sales. Part two discusses construction of a replacement price and the considerations involved in estimating today's Part three discusses considerations involved in Computing what actual replacement cost would be Taking into account future inflation, number of igens produced, spendout, the required for produceser, and other influential factors. The purpose of this report is to provide insight into the theory of Replacement Pricing. Specifically, to identify problems which might not be evident to some FMS related personnel and provide illustrative examples Additional information, glossary, charts, and explanations are presented, in order to make the document of use to a troad cross section of the

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZGMO7

AD-A037 079 20/11 14/1 1/5

MITRE CORP MCLEAN VA

Estimation of UG3RD Capacity Impacts.

DESCRIPTIVE NOTE: Final rep...

Smith, Arthur P. ;

JAN 77 109P ST REPT. NO. MIR-7138 CONTRACT: DOY-FA70WA-2448 MONITOR: FAA-AVP 77-9

UNCLASSIFIED REPORT

DESCRIPTORS: \*Runways, \*Airports, \*Impact tests.
\*Cost benefits, Air traffic control systems
IDENTIFIERS: Runway capacity (U)

This study provides airport runway capacity estimates for the top 30 U.S. air carrier airports for the FAA's Upgraded Third Generation ATC System Cost Benef:t Study. The capacity estimates were made at five year intervals for both IFR and VFR conditions for the baseline and the five alternative configurations defined for the cost benefit study. The results indicate that if the UGSRD Generation ATC system is fully implemented by 1990 and if wake vortex conditions are favorable then nearly a 40% increase in capacity could be realized at the top 30 air carrier airports under IFR conditions and an increase of 23% under VFR conditions. The greatest increase in IFR capacity (48%) accrues to those airports which use a dual-jane runway configuration as their predominant mode of operations in IFR conditions. This increase in capacity is expected to reduce terminal area delays. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A036 830 8/6 13/2 5/1

CORPS OF ENGINEERS BALTIMORE MD BALTIMORE DISTRICT

Binghamton hastewater Management Study. Design and Cost Appendix.

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JUN 76 683P

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UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Impact Assessment and Evaluation Appendix. AD-A036 831.

DESCRIPTORS: \*haste water. \*Waste management. \*New York. \*Cost analysis, Water pollution. Flood control. Planning. Watersheds. Rivers. Forecasting. Finance IDENTIFIERS: \*Binghamton(New York).

Susquehanna River (0)

This appendix presents the documentation of the engineering analyses which formed the basis of the designs and costs of wastewater management systems. To a certain extent, the design and cost information was refined in an interative fashion similar to the refinement of the plans themselves. The Design and Cost Appendix presents the development and methodology of the engineering analyses as well as the detailed design and cost of the final plans. The Plan Formulation Appendix documents all significant events and the final plans. The Plan Formulation Appendix documents all significant events and decisions involved in the formulation, evaluation, and selection of wastewater management plans. Other supporting appendices, pressit in detailed infromation on particular elements of the Study include the following: Impact Assessment and Evaluation, Institutional Analysis, and Evaluation. Institutional Analysis, and
Public Involvement. Also included is the
Speciality Appendix which presents detailed
analyses of investigations that either overlapped the
other appendices or were of particular interest to
participants in the Study. These investigations
were: the Outlying Communities, river
recreation, nonstructural measures, land application. non-point source pollution, and industrial wastewater management. A general profile of the Study Area is contained in the Background Information Appendix.

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DOC REPORT BIBLIOGRAPHY SEARCH G'NTROL NO. ZOMO?

AD-A036 814 13/2

METCALF AND EDDY INC BOSTON MASS

Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program.

OCT 75 144P

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC reproductions will be in black and white. Includes envelope with map. See also report dated Mar Includes envelope with map. See also report daked more 76, AD-A036 792.

DESCRIPTORS: "Sanitary engineering, "Cost analysis, "Sewage treatment, "Waste water, "Waste management, Water treatment, Water pollution abatement, Management planning and control, Public utilities, Facilities, Sewage disposal, Pumping, Piping systems, [verload, Criteria, Finance, Regulations, Massachusetts, Urban areas IDENTIFIERS: Boston Harbor (U)

This report covers the recommendations made as a result of the EMMA Study. While all items presented in this report are interrelated, early chapters of this report deal with specific items of the severage system while the later chapters deal with the costs of the program and the recommendations for financing and managing the system.

## UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 12M07 13/2

AD-A036 405 17/2

GTE SYLVANIA INC NEEDHAM HEIGHTS MASS COMMUNICATIONS

ELF Communications SEAFARER Program. Site Survey. Michigan Region. Antenna Construction Cost Factors and Installation

(U)

DESCRIPTIVE NOTE: final rept. JUL 76 73P CONTRACT: NCSO39-75-C-0309

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Henkels and McCoy. Inc.. Southfield, Mich. DESCRIPTORS: \*Global communication systems. \*Environmental impact statements, \*Underwater \*Communications, \*Radio links, \*Underground antennas, \*Cost analysis, Costs, Michigan, Extremely low frequency, Environments, Installation. Construction, Base lines, Surfaces, Depth IDENTIFIERS: \*Site survey, \*SEAFARER Project. Elf communications (U) (U)

A study of the methods and costs associated with the installation of the underground antenna cable portion of the SEAFARER Project is described. This study included a physical examination of the proposed installation site located in portions of the Upper Peninsula of Michigan. Final installation plans and costs will be determined when system design has been completed. The baseline data contained in the report will be extrapolated as required to support final costing. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Introduction to Multiple State Multiple Action Decision Theory and Its Relation to Mixing Structures.

JAN 77 59P Eng REPT. NO. ECOM-5810 PROJ: DA-1-L-161102-8-53-A Engebos, Bernard Francis:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Decision theory, \*Life cycle costs. \*Cost effectiveness. Game theory, Stochastic (U) processes, Theorems

A general mathematical framework is developed which A general mathematical framework is developed which addresses the problem of determining an optimal, or near optimal, course of action, when the outcome of a given course of action is known to be influenced by an evolving state of nature. In this context the advantage of knowledge of the natural state is balanced by the cost of obtaining this information. Such a structure, when considered as functioning over a given time interval, permits employment of life cycle cost versus possible gain. All the mathematical structures and related entities, and the underlying properties thereof, are developed in a mathematical structures and related entities, and the underlying properties thereof, are developed in a manner that such tradeoff studies are possible. The theoretical development as presented is related to that of statistical game theory but with a broader set of objectives. Multiple aspects for the state of nature, and sets of permissible action are allowed, with these actions being capable of simultaneous performance. This leads to the introduction of multiple state multiple action of significant theory and its basic framework, the 'mixing structure'. The concept of 'sensor mixes' is defined and related to the possibility of decreasing loss by the soying on the state of nature. The cost of obtaining this information is then balanced against the gain obtained by knowledge of the natural state. A resulting 'tiqure of merit' may be used to determine the desirability of each sensor mix. (U

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A036 366 1/2 5/3

BATTELLE COLUMBUS LABS OHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume IV. Data Base.

DESCRIPTIVE NOTE: Final rept. 12 Jun 74-12 Aug 75.
AUG 75 144P Porter.R. F. :Duffy.M.
A. :Cote.R. W. :
CONTRACT: DOT-FA74WA-3485 CONTRACT: DOT-FA7 75-13-Vo1-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A036

DESCRIPTORS: \*Air transportation. \*Cost analysis. Finance, Acquisition, Accounting, Flight crews.
Salaries, Leasing, Taxes, Cost models, Systems engineering, Statistical data
IDENTIFIERS: General aviation, \*Business corporate flying, Corporate owned aircraft, Cost sensitivity

analysis

:Contents: Business/corporate category activity data, 1972; Cost data; Corporate owner Characteristics.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 5/3

1/2 AD-A036 365

BATTELLE COLUMBUS LABS CHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume III. Planning Guide.

Final rept. 12 Jun 74-12 Aug 75. Porter,R. F. :Duffy,M. DESCRIPTIVE NOTE:

AUG 75 63P Porter
A. :Cote.R. W. :
CONTRACT: DOT-FA74WA-3485
MONITOR: FAA-AVP 75-13-Vol-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A036 364 and Volume 5, AD-A036 366.

DESCRIPTORS: \*Air transportation, \*Cost analysis, finance, Acquisition, Accounting, Flight crews, Salaries, Leasing, Taxes, Cost models, Systems engineering, Cost estimates

IDENTIFIERS: General aviation, \*Business Corporate flying. Corporate owned aircraft. Cost sensitivity analysis

(Contents: Discussion of limitations and instructions for use: Interpretation of Cost sensitivity and cost impact relationships; Evaluation procedure; Cost sensitivity charts; Cost impact charts; Example of cost impact evaluation procedure.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-#036 364

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BATTELLE COLUMBUS LABS CHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume II. Research Methodology.

DESCRIPTIVE NOTE: Final rept. 12 Jun 74-12 Aug 75.
P Porter.R. F. : Duffy.M. AUG 75 123P Porter.
A.:Cote.R. W.:
CONTRACT: DGT-FA74WA-3485
MONITOR: FAA-AVP 75-13-Vol-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A036 363 and Volume 3. AD-A036 365.

DESCRIPTORS: \*Air transportation. \*Cost analysis. Finance. Acquisition. Accounting. Flight crews.
Salaries. Leasing. Taxes. Cost models. Systems
engineering. Statistical data
IDENTIFIERS: General aviation. \*Business corporate

flying. Corporate owned aircraft. Cost sensitivity analysis

(Contents: Development of cost sensitivity Coefficients: Cost impact relationships: Connelation of air-craft and business Characteristics.

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AD-A036 365

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AD-A036 364 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A036 363 1/2 5/3 BATTELLE COLUMBUS LABS OHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume I. Executive Summary.

Final rept. 12 Jun 74-12 Aug 75, PP Porter.R. F. : Duffy,M. DESCRIPTIVE NOTE: AUG 75 42P PC A.:Cote,R. W.; CONTRACT: DOT-FA74WA-3485

MONITOR: FAA-AVP 75-13-Vol-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A036 SUPPLEMENTARY NOTE: See also Volume 2, AD-A036 364. '
364. '
DESCRIPTORS: \*Air transportation, \*Cost analysis, Finance, Acquisition, Accounting, Flight Crews, Salaries, Leasing, Taxes, Cost models, Systems engineering IDENTIFIERS: General aviation, \*Business Corporate flying, Corporate owned surcraft, Cost sunsitivity analysis

The report, in four volumes, presents the results of research intended to enhance the utility of the original General Aviation Cost Impact Study (DDT-FA74WA-3118) by (1) identifying subcategories of business/corporate operators with varying effective after-tax sensitivities, (2) redefining the empirical cost impact relationships for business/corporate flying by using an expanded data base, and (3) providing information to permit greater insight into the nature of the business fleet by examining the financial characteristics of corporate owners.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20407

AD-A036 327

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5/3 12/1

COCYERHAM (JOHN M) AND ASSOCIATES INC HOPEWELL VA

US Army Total Risk Assessing Cost Estimate (TRACE) Gu.delines.

(U)

DESCRIPTIVE NOTE: Tecrnical rept. DEC 76 94P DEC 76 94P
CONTRACT: DAAH01-76-C-1068
PROJ: 1W362303A214
MONITOR: RC 77-3

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Army budgets. \*Risk analysis. Network flows. Scheduling. Uncertainty. Flow charting. Allocations. Cost overruns. IDENTIFIERS: Trace analysis. \*Total risk assessing cost estimates. AS214, PE62303A

This report describes the background, logic, and purpose of the TRACE concept. Some basic mathouringies for conducting YRACE analyses are described and illustrated. Procedures to be followed for obtaining risk capital are also described and illustrated. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A036 177 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Implementing Replacement Cost Accounting.

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DESCRIPTIVE NOTE: Master's thesis. DEC 76 75P Clickener.

Clickener.John Ross:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Accounting, \*Replacement. \*Costs. \*Inflation(Economics). Value, Economics. Foreign, Great Britain, United States.

IDENTIFIERS: Replacement cost, Price changes

This thesis examines the methods proposed and employed to recognize the methods proposed and employed to recognize the effects of inflation in financial reporting. A brief discussion of the development of valuation theory is presented and the principal alternatives to the present historic cost principal alternatives to the present historic cost based method are described. The development of specific inflation accounting proposals and methods is described. The proposals for general price-level adjusted financial statements by the accounting profession are identified, and emphasis is given to the description of the replacement cost methods adopted by the governments in the United States and England. Specific methods of developing replacement costs in compliance with existing and England. Specific methods of developing replacement costs in compliance with existing regulations are analyzed. The implementation and impact of replacement costing on a firm is described and possible alternatives to the specific method employed are explored. Conclusions are drawn as to the value of the replacement cost financial data, and opinions are offered concerning appropriate valuation methods. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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ARMY TRAINING SUPPORT CENTER FORT EUSTIS VA

Test and Evaluation of the Army's CH-47

Helicopter flight Simulator.

(11)

JAN 77 272 Toomepuu.Juri :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the DoD/NASA SUPPLEMENTARY NOTE: Presented at the DoD/NASA Simulation Technology Coordination Group Meeting (3rd), 18 Jan 77, Naval Training Equipment Center, Orlando, Florida.

DESCRIPTORS: \*Army training, \*Flight simulators, \*Training devices, \*Transfer of training, \*Cost effectiveness, \*Flight training, \*Helicopters, Flight Simulation, Test and evaluation, Television display systems, Television cameras, Terrain, Army procurement, Pilots, Cost analysis, Visual surveillance analysis. Visual surveillance IDENTIFIERS: CH-47 aircraft. H-47 aircraft. Visual systems. BOIP(Basis Of Issue Plan). Basis of Issue Plan

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This report gives an overview of the Army's Current efforts to test and 6-aluste the prototype CH-47 Helicopter Flight Simulator

CH-47 Helicopter Flight Simulator (CH47FS). This effort includes a combined development and operational test (DT/OT II) and a Cost and Training Effectiveness Analysis (CTEA). The CH47FS is the first prototype of the Army's new generation flight simulators with six degrees of freedom motion system which incorporate a video camera/terrain board visual System. The Current avaluation convents. incorporate a video camera/terrain board visual system. The Current evaluation represents a significant advance in the procedures and methods for validation of the Army's stated flight simulator requirements. During the operational test, transfer of training experiments will be conducted for both institutional and unit pilot training, and objective and subjective training effectiveness data will be collected. The CTEA, using data generated by the test, will evaluate the simulator cost and training effectiveness for various training packages, defined in terms of the extent of substitution of aircraft by simulator in pilot training. A Basis of Issue Plan (BOIP) model for flight simulators, based on mathematical programming techniques.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A036 146 5/3

CENTER FOR NAVAL ANALYSES ARLINGTON VA

An Evaluation of the GMP Deflator as a Basis for Adjusting the Allowable Price of Crude Cil.

FEB 77 56 David E. ; REPT. NO. CRC-308 Jondrow.James M. : Chase.

UNCLASSIFIED REPORT

DESCRIPTORS: •Crude oil, •Costs. Economics, Exploration, Inflation(Economics). Price index, Production, Petroleum industry (u)

The price controls on ciude oil, beginning in February 1976, allowed the average price to grow at the same rate as the GNP deflator. An additional increase up to 3% per year was also allowed. Furthermore, the two adjustments to price were limited to a total of 10% per year. The use of the GNP deflator to adjust the price of crude oil is evaluated to determine whether it compensates for changes in the prices of purchased items and labor used in the discovery and production of crude oil. A price index for these costs is constructed and compared with the GNP deflator for the period 1965 to 1976. (Author) (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A036 122

STANFORD RESEARCH INST WENLO PARK CALIF

Requirements and Alternative Designs for Automating the Publication of NAVSEA MOTO at the NSDSA.

(U)

DESCRIPTIVE NOTE: Final rept. 1 Jul-30 Nov 76.

JAN 77 152P Bialik.Jack J. :Whiting-JAN 77 152P O'Keefe,Patricia: REPT. NO. SRI-4739-7 CONTRACT: NCC014-76-C-0407 PROJ: F55522 TASK: ZF55522003

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: \*Information systems. \*Information retrieval. \*Cost analysis. Nanuals. Naval logistics. Naval planning. Documents. Technical information centers. Automation. Shipboard. Distribution. Production. Data storage systems. State of the art
IDENTIFIERS: Maintenance and Operator Technical
Data. MOTD(Maintenance and Operator Technical
Data). WU11860015. PE62757N

Data). WU11860015. PE62757N

The United Sates Navy is currently in the initial phase of the Navy Technical Information Presentation Program (NTIPP), which is intended to modernize the generation, maintenance, publication, and distribution of MOTD on a Navy-wide basis. At the same time, NAVSEA, with an extremely large MOTD production requirement, is in the process of improving its cwn production capabilities. This report analyzes the ability of the current NSDSA publication support system (ADPREPS) to supply those requirements, and the alternative technical approaches that might be used to satisfy the NSDSA's growing requirements in the near future. The near future is defined as a period three to four years after the issuance of this report. The investigations were all placed within the context of the NTIPP. The manner in which the NSWSES publication system modernization program will be compatible with the later NTIPP developments was a major consideration.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCM97

AD-A035 889 5/1 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Rate Stabilization at Navy Industrial Fund Research and Development Activities.

DESCRIPTIVE NOTE: Master's thesis. DEC 76 85P Ernest Arnold ; Kramar.Joel David :Solberg.

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Research management. \*Costs. \*Naval research laboratories, Accounting, Finance, Policies, Department of Defense, Rates, Stabilization, Regulations, Resource management, Test facilities. Indirect costs. Jobs. Labor. Time dependence. Naval budgets. Allocations. (11) DENTIFIERS: \*Prices, Industrial funding, Billing, Workloads, Overhead, Funding, In-house laboratories, Navy industrial fund (u)

Recently the Assistant Secretary of Defense (Comptroller) directed that all DOD inc. ially funded activities bill their customers on the basis of stabilized rates. Industrially-funded R/D activities are included in the policy change. This paper addresses the subject of stabilized rates at R/D activities — (1) Identifying the policy change: (2) Tracing its Emergence in DDD; and (3) Assessing potential impacts. The writers conclude that stabilized rates are more appropriate for non-R/D activities than for R/D activities. However, stabilized rates are workable in the R/D environment as long as one recognizes that the R/D workload is essentially a level-of-effort concept, and as long as minimal adjustments to locally established rates are made at higher levels.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

14/1 AD-A03\_ 823

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DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Computer Aided Cost Estimation for Production Engineers.

(9)

DESCRIPTIVE NOTE: Final rept..

MAR 76 112P Scott.Calvin Gregory:
REPT. NO. DARCOM-ITC-02-08-76-205

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer aided diagnosis. \*Cost estimates. Computer applications. Input. Research management. Cost analysis. Tools. Materials. Labor. Manufacturing. Computer programs. Parametric analysis IDENTIFIERS: Trees(Mathematics)

(U)

This report develops a computer system which will an'ow an engineer to utilize the computer to and him in preparing a cost estimate. Input to the programs is detailed information on the production process being analyzed. Included in the input are manufacturing operation times, material costs. tooling costs. labor costs. and various indirect fees assoicated with the manufacturing process. The output includes two reports. The first is a detailed report on each operation, and the second is a summary sheet summarizing the costs of an operation. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

13/8 AD-A035 671 14/1 19/6

ARMY ARMAMENT COSMAND ROCK ISLAND IL: COST ANALYSIS

Producibility Engineering and Planning (PEP). (U)

DESCRIPTIVE NOTE: Technical rept...
JAN 77 70P Riedesel. JAN 77 70P Riedesel.Paul R.; REPT. NO. DRSAR-CPE-77-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates, \*Production engineering, \*Guns, Life cycle costs, Regression analysis, Cost analysis, Drawings, Manhours, Army planning, Mortars, Grenade launchers, Howitzers, Army operations

A method of estimating Producibility
Engineering and Planning (PEP) costs for
proposed armament systems is presented. The method
is intended for use in the development phase of the
life cycle of an armament system. A cost estimating
relationship (CER) has been developed based upon
the number of drawings for an armament system. The
methodology of CER development as well as
historical costs and numbers of drawings are included
as an aid to the cost estimator. (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEAFCH CONTROL NO. ZOMO?

15/5 AD-A035 262 15/7

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Military Construction Engineering and Design

Cost Forecasts. (U)

DESCRIPTIVE NOTE: Final rept..

JAN 77 30P O'Connor.Wichael J.:
Brown.Gerald J.:DeCardy.John R.:!
REPT. NO. CERL-TR-P-77
PROJ: DA-3-A-762719-AT-05
TASK: 4-A-762719-AT-0503

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Military engineering. \*Construction. \*Cost models. Military facilities. Military planning. Cost estimates. Predictions. Statistical

This report presents a statistical model for forecasting engineering and design (E and D) costs to aid the Directorate of Military Construction in establishing yearly targets for Division/District E and D rates. Data for nine military Construction Divisions/Districts from fiscal year (FY) 1966 through fiscal year 1975 were analyzed. A statistically significant model for eight Districts was developed and verified by a retrospective test. E and D costs/rates predicted as a function of the estimated cost of construction for the eight Districts are presented for FY 76 and FY 77.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A035 168 14/1 9/2

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Life Cycle Cost Model: Programmer's Guide. Volume 11. (U)

DESCRIPTIVE NOTE: Final rept.,
UAN 76 SIP Brannon,Richard C.;
REPT. NO. DCA-R-15-/o1-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A021 DESCRIPTORS: \*Life cycle costs. \*Cost models.
\*Programming manuals, \*Cost analysis, Computer
programs, Time sharing, Cost estimates, Weapon

Volume 1, User's Guide, describes the Army
Life Cycle Cost Model, a time sharing cost
model which produces both static and time phased
parametric cost estimates for major weapons systems.
The output reports conform to the latest Research
and Development, Investment, and Operating and
Support DA Pamphlets, 11-2, 11-3, 11-4.
Program listings of the model and its associated
report generator are contained in Voluma 2,
Programmer's Guide. (Author) (U) UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20907

AD-A035 091 14/1 17/7 14/4

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION GHIO

Proceedings of the Life Cycle Cost Task Group of tre Joint Services Data Exchange for Inertial Systems. Quarterly Meeting held at San Diego. Calif. on 24-26 February 1976.

(11)

(U)

DESCRIPTIVE NOTE: Final rept..
FEB 76 172P Stauffer.Russell B. :
REPT. NO. AGVC-76-008

UNCLASSIFIED REPORT

DESCRIPTORS: \*Life Cycle Costs. \*Inential systems. \*Reliability. Cost effectiveness. Meetings. Logistics support. Monte Carlo method. Design to cost. Transmitter receivers. Gas turbines

The proceedings contain texts and slides of invited papers: and reports from working groups concerned with programming, distribution, and change control of the life cycle cost model being developed by the Task Group. (0)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A035 066 17/7 14/1

NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY WASHINGTON D

A Comparison Between the AN/ARN-84 (V) and the AN/ARN-118 (V) TACANS. Based on the Life Cycle Cost.

DESCRIPTIVE NOTE: Final rept..
NOT 76 43P Cundari.Lawrence A.;
REPT. NO. NAVWESA-R-76G4

# UNCLASSIFIED REPORT

DESCRIPTORS: \*TACAN. \*Life cycle costs. \*AN/ARN-118(V), Cost analysis, Coast Guard. Air Force, Reliability. Cost effectiveness. Savings. Peacetime, Avionics. Maintenance. Distance measuring equipment. Navy (U) IDENTIFIERS: \*AN/ARN-84(V), Warranty. Wartime (U)

TACAN (Tactical Air Navigation) equipments are being procured for the Navy. Coast Guard, and Air Force. The life-cycle costs and performance characteristics of different models of these equipments vary greatly. The two equipments currently being procured are the AN/ARN-84(V). for the Navy and Coast Guard, and the AN/ARN-118(V) for the Air Force. This report is a cost analysis based on the life cycles of these two equipments. It provides data intended to aid NAVAIR and OPNAV in making future procurements cost effective and responsive to both peacetime and war time TACAN requirements. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A034 930

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12/1 5/3

CALIFORNIA UNIV LOS ANGELES DEPT OF ENGINE'RING SYSTEMS

Lower Bounds for a Quacratic Cost Functional.

(u)

DESCRIPTIVE NOTE: Interim rept..

NOV 74 10P Aronoff.Ethan :Leondes.

Connelius T.:

CONTRACT: AF-AFOSR-2166-72

PROJ: 9769

TASK: 01

MONITOR: AFOSR TR-76-1428

## UNCLASSIFIED REPORT

Availability: Pub. in International Unl. of Systems Science, v7 n1 p17-25 1976. DESCRIPTORS: \*Cost analysis. \*Control theory. Quadratic equations. Optimization. Parametric analysis. Boundaries. Hilbert space. Reprints IDENTIFIERS: PE61102F. XUAFOSR976901

(U)

Lower bounds for a quadratic cost functional.

applicable to certain optimal control problems, are
derived. Trese bounds are tight, and are found to
be useful in determining the quality of suboptimal
controls. The use of a cost functional lower bound
in the suboptimal control of a linear distributed
parameter system is included. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A034 309

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WALTER REED ARMY INST OF RESEARCH WASHINGTON D C

Dual Column Operation for Gas Chromatograph-Mass Spectrometer.

MAY 76 Kazyak.'eo :

UNCLASSIFIED REPORT

Availability: Pub. in Analytical Chemistry, v48 n12 p1826-1828 Oct 76. DESCRIPTORS: •Mass spectrometers. •Gas chromatography, \*Mass spectrometry. Quinazolines, Capillaries, Column chromatography. Ketones, Metabolites, Reprints ; IDENTIFIERS: WU088 (U)

An arrangement to operate dual columns, i.e. a An arrangement to operate dual columns, 1.2. a capillary and a packed column in a gas chromatographmass spectrometer is described. The packed column provides the make-up for the capillary column so that the molecular separator can be retained in the system. This affords efficient operation of both columns without extensive alteration of the equipment and eliminates the necessity to interchange columns.
(Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-AC34 192

15/5 ARMY TROOP SUPPORT COMMAND ST LOUIS MO

6/8

Commercial Holding Cost Differential between Dry Storage and Controlled Cold Storage for Meal, Compat, Individual (MCI).

(11)

DESCRIPTIVE NOTE: Technica: memo..
OCT 76 25° Yawita.Aubrey A.:
REPT. NO. TROSCOM-TV-76-1

IDENTIFIERS: \*Dry storage

UNCLASSIFIED REPORT

DESCRIPTORS: \*Military supplies. \*Food. \*Storage. \*Cost analysis. Cold sturage. Warehouses. Rotation. Deterioration. Army procurement

(U)

The US Army maintains war reserve stocks of Meal. Compat. Individual (MCI). These Stocks are currently held in commercial cold storage stocks are currently neight of commercial cold stemarehouses. Periodically before spoilage occurs tress stocks must be sent to the field for Consumption. These stocks of MCI's are then replaced by new stocks. This process is called rotation. Dry storage of MCI's has been considered as an alternative to controlled cold storage. The storage requires more finement. storage. Dry storage requires more frequent rotation than does controlled cold storage, since MCI's deteriorate more rapidly under dry storage conditions. The study compares the costs involved in holding the MCI's under conditions of dry storage and controlled cold storage.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A033 972

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ARMY AVIATION CENTER FORT RUCKER ALA

Cost and Training Effectiveness Analysis (CTEA) of the CH-47 Flight Cinaliston

E: Study plan. DESCRIPTIVE NOTE: DEC 76

UNCLASSIFIED REPORT

DESCRIPTORS: \*Flight simulators, \*Cost effectiveness, \*Army training, Training devices, Helicopters, Operational test and evaluation, Methodology, Army aviation, Flight training, Instructional materials, Flight simulation, Performance(Human), Cost analysis, Skills IDENTIFIERS: H=47 aircraft, Ch=47FS (U) (U)

The CH47FS CTEA Study Plan presents the purpose of the study and the terms of reference, including the problem statement, the objectives, scope, limits and assumptions, and the Essential Elements of Analysis (EEA). The altern tive training packages selected for analysis and the training packages selected for analysis and the Measures of Training Effectiveness (MDTE) are defined. The support and resource requirements for the study are listed and control procedures and the study schedule established. Included are also the methodology for analyzing training effectiveness, the operational test plan for generating effectiveness data, and the methodology for cost analysis. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A033 926

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14/1 ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Break-Even Analysis of YADS. #163. Antenna Protection Device.

(U)

DESCRIPTIVE NOTE: Final note. JUL 75 David #- : 140 Husson. Richard D. : Johnson. REPT. NO. DRSAR/SA/N-52

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Antenna components. \*Radar antennas. \*Protective equipment. \*Cost analysis. Life expectancy

IDENTIFIERS: Break even analysis. M-163 Vulcan

Air Defense Systems

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(4)

This note presents a break-even analysis conducted to determine now much can be seent (per device) for an antenna protection device for the radar on the Yulcan M163 System. The present value of Costs without a protective device was equated to the present value of estimated costs with a protective device. This analysis gives the maximum amounts that can be spent on protective devices for varying degrees of protection. (Author) (11)

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AD-A033 926 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A033 754

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Consolidation of RPWA at Fayetteville, N. C. Volume 1. Executive Summary for the Study of Consolication of RPE in the Fayetteville, N. C. Area.

DESCRIPTIVE NOTE: Final nept..
DEC 76 30P Brown.David W. :Kirby. DEC 76 30P Bro Jeffrey G. :Nay.Joyce L. : REPT. NO. CERL-TR-C-73

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AC-A030518. •Geographic areas. •Cost analysis. Savings.

Manpower. Economic analysis. Quality assurance. Military planning

IDENTIFIERS: Real property, Fayetteville(North Carolina), Pope Air Force Base, Consolidation, Fort Bragg (U)

The reportiprovides an executive summary of the The report' provides an executive summary of the economic analysis performed to determine the feastbility of consolidating real property maintenance activities (RPMA) in the Fayetteville, NC area (Fort Bragg/Pobl AFB). Results indicate that Consolidation of RPMA at Fort Bragg and Pobl AFB using an Army Industrial Fund Organization (AIFO) is feetile and that consolidation and consolidation. Army industrial fund digamentation (AIPO) is fessible and that savings are possible based on the assumptions made in the study. Manpower reductions of 83 to 100 (6 to 8 percent) are to be expected. No loss of responsiveness or quality of work is no loss or responsiveness or quality or work is expected. Since the savings are based on more than one military service, some of the savings, e.g., for equipment, may be realized by the Department of Defense and not entirely at the local level. LACUASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

21/5 13/8 AD-A033 667 5/3

AIR FORCE CENTRACT VANAGEMENT DIV KIRTLAND AFB N WEX

A kethodology for Estimating Jet Engine Custs Early in Weadon System Acquisition.

AUG 76 382 Yanke.Wichael A. I

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost models. \*Jet engines. \*Industrial production. Vilitary producement. Estimates, acapon systems. Contract administration. Forecasting. Confidence level. Variables, Input output models. Statistical data. Decision making, Literature surveys. Data bases.

Computer programs. Accounting. Costs The Department of Defense (DDD) is deeply Conemed about developing accurate initial estimates for weapon system production costs. An area of particular interest is providing estimates of future

ron weapon system production Costs. An area of particular interest is providing estimates of future production costs for jet e.gines. Current parametric wodels used by the Air Force identify engine cost as a function of output variables. Other DOD exences consider relating input variables as well as output variables to production costs. This study was designed to find a better way to estimate engine production costs. The results of this research include the following findings: (1) current Air Force cost-estimating models are operationally ineffective: (2) new materials—related variables are highly correlated with cost and should be considered in developing future cost—estimation models: (3) statistical validation of cost models should incorporate confidence interval testing at a specified along level for each prediction: and (4) the use of confidence intervals is the correct statistical aboroach for developing cost estimates which may be used in decision making. (Author) decision making. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A033 291 5/1 14/2

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

T and E Uniform Funding Policy, A Appraisal of the Fiscal lear 1975 Experience.

DESCRIPTIVE NOTE: Study project rept., MAY 76 40P Schneider, John R.;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Finance, \*Test facilities, \*Costs, Allocations, Standardization, Policies, Management planning and control, Test and evaluation, Accounting, Budgets, Resource management, Rarges(Fscilities), Cost (U)

destimates
IDENTIFIERS: Funding, Uniform funding policy,
Direct costs, Cost reimbursements (U)

The Department of Defense implemented a new approach to the funding of most Test and Evaluation facilities in fiscal year 1975. The new approach was called the Tark and Evaluation Uniform funding Policy. It required all federal agencies using Test and Evaluation support to fund the direct costs associated with their individual programs. This study reports a synthesis of the growing pains of the Uniform Funding Policy in the first year of implementation. Information was gathered from the experience of the Space and Missile Test Center and selected users of T/E facilities. Two major recommendations are: (1) Perform an indepth, objective cost/benefit analysis of the Uniform Funding Policy at a representative group of T/E facilities and user organizations; and (2) Apply the costing disciplines of (. The Department of Defense implemented a new

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A032 797

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CENTER FOR NAVAL ANALYSES ARLINGTON VA

The Feasibility of a Geographic Pay Supplement for CGNUS Military Personnel.

(U)

SEP 76 80P Wa REPT. NO. CRC-295 CONTRACT: M:00014-76-C-05c9 Warner. John T. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Salaries. \*Naval personnel. \*Cost benefits. Data bases. Housing projects. Geographic areas. Housing(Dwellings), Naval planning. Naval shore facilities. Urban areas. Rural areas. United States. Price index IDENTIFIERS: Cost of living index

(U)

This report considers the feasibility and desirability of making adjustments to military pay to correct for regional variation in the cost of living in the Continental United States (CONUS). First. the adequacy of existing data bases for implementing a pay adjustment is assessed. Next. the feasibility of using cost-of-living indexes for specific items to correct for regional differences in overall living costs is explored. Then. 1975 housing expenditure data provided by the Naval Facilities Engineering Command is used to construct housing cost indexes for 118 CONUS military installations. Various ways of grouping CONUS installations for the purpose of implementing a variable housing allowance (VAA) are suggested and the costs of several alternative VHA plans are estimated. Finally, an evaluation of the arguments for and against a geographic pay adjustment is provided. (Author) This report considers the feasibility and

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A032 627

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AIR FORCE INST OF TECH WRICHT-PATTERSON AFB OHIO SCHOOL OF **ENGINEERING** 

Aircraft Airframe Cost Estimation Utilizing a Components of Variance Model.

(U)

DESCRIPTIVE NOTE: Master's thesis.
OCT 76 98P Marcotte,Ronald C.;
REPT. NO. AFIT/GOR/SM/76D-10

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates, \*Airframes. Mathematical models, Air Force procurement,
Parametric analysis, Analysis of variance, Least
squares method, Components, Error analysis,
Acquisition, Theses

Previous studies into airframe acquisition cost estimation do not explicitly recognize the existence of correlation in the Distorical data. If one of correlation in the Pistorical data. If one believes this data problem exists, then it is possible to develop a components of variance model that takes the problem into Account. It is a more general model that recognizes two sources of error: (1) error due to different types of airframes and (2) overall or ordinary regression error. The variance of these two errors can be estimated and then can be utilized along with the technique of generalized least squares to obtain a cost estimating relationship which explicitly accounts for the data correlation. This modeling technique, when compared to techniques presently in service, shows that present estimating relationships underestimate the variance of the Cost prediction of a new type present estimating relationships underestimate the variance of the Cost prediction of a new type airframe and overestimate the variance of the cost prediction of a follow-on airframe. Also, those existing techniques which implicitly recognize data correlation do not make use of all the data information available and therefore produce estimates with non-confidence prediction intervals. with poor confidence prediction intervals.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 9 '2

AD-A032 499

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DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Life Cycle Management of Army Tactical Management Information Systems (TACMIS).

(U)

DESCRIPTIVE NOTE: Study project rept... MAY 76 27P Ward.Mack C.:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Management information systems. \*Cost models. \*Tactical data systems. Life cycles. Data processing. Automatic. Decision making. Computers

(0)

The purpose of this study is to examine the life Cycle management of Army Tactical Management Information Systems with particular emphasis on integration of the requirements of the life Cycle System Management Model (LCSMM) for Army Systems. DA Pam 11-25. and the Army Management Information System (AMIS) AR 18analysment information system tamin ak 181. Considerable attention, both in the literature
and in practice, has been given to the systems
acquisition process for inception through development
into production. The principal thrust of this into production. The principal thrust of this attention, however, has been directed towards RDT and E and acquisition of weapons systems to counter a perceived threat. This study focuses on areas in the present AMIS Model that appear to be weak and attempts to cyrrelate some of the more significant activities and documentation requirements with the detriftes and decomment of the effort is the determination of the feasibility of developing a single Army TACMIS model with the detail of the LCSMM. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A232 458

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Magnitude of Internal Rework on the F-4 Aircraft during Depot Level Maintenance at Ogden Air Logistics Center.

(u)

DESCRIPTIVE NOTE: Master's thesis. SEP 76 85P Berry.John B. ;Hines. SEP 76
Raymond M.; REPT. NO. SLSR-11-768

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft maintenance. \*Costs. \*Maintenance management. Air Force planning. Depots, Value engineering, Quality assurance. Methodology, Theses, Jet fighters IDENTIFIERS: F-4 aircraft

In May 1975, Mr. J. Turk, Office of the Secretary of Defense, expressed a desire to estimate the magnitude of rework cost within AFLC to determine if it was of sufficient magnitude to warrant special attention in all services. Ogden ALC was selected as a test area for this research. ALC was selected as a test area for this research. The primary objectives of the research were:
(1) determine the magnitude of rework cost for the F-4 aircraft during depot level maintenance.
(2) identify the major areas of rework, their primary causes, and their cost magnitudes, (3) develop a standard methodology for identifying and classifying rework in terms of maintenance areas, causes, and cost magnitudes, and (4) stimulate interest for conduct 3 similar research at other ALCs and TRCs with the major emphasis on reducing rework cost. (Author)

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DDC REPORT SIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A032 274 1/2 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Logistics Support Cost Analysis of the Advanced Aerial Refueling Boom. (0)

DESCRIPTIVE NOTE: Master's thesis. SEP 76 234P Carver L. : Jeffreys.Richard T. :Sears. AFIT/GSM/SM/76S-13 SEPT. NO.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Refueling in flight.
\*Booms(Equipment). \*Cost analysis. Computer
programs. Logistics support. Models. Yanker planes. Life cycle costs. Computerized simulation. Theses IDENTIFIERS: KC-135 aircraft (U)

Under an Air Force contract. Douglas
Aircraft Company is developing an Advanced
Aerial Refueling Boom (AAAB) for the
Advanced Tanker/Cargo Aircraft System
Program Office (ATCA SPO). The purpose of
the AARB development program is to demonstrate that the AARB development program is to demonstrate that an advanced technology boom system, which will eliminate some of the limitations of the existing KC-135 boom, can be designed and successfully flown. To date, development of the AARB has been mainly oriented toward performance-meeting the design requirements. The ATCA SPO now desires to examine the costs of supporting the proposed design, if it is produced. This thesis is directed toward identifying the differential logistics support costs of the AARB. The Boom Model, a tailored version of the Air Force Logistics Command Logistics Support Cost (LSC) Model, is used to develop the logistics support cost figure of merit Logistics Support Cost (LSC) Model. is used to develop the logistics support cost figure of merit for the proposed AARB. The Boom Model is also used to develop a similar (igure of merit for the existing KC-135 boom. The values for variables used in the KC-135 boom analysis are obtained from existing Air Force maintenance data collection systems. A methodology for extracting data from systems. A methodology these Systems is given.

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A032 220 6/5

RAND CORP SANTA MONICA CALIF

Health Care Cost Sharing and Cost

(U)

(U)

(11)

FEB 76 3 REPT. NO. P-5615 32P Newhouse.Joseph P. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.
DESCRIPTORS: \*Public health. \*Health surveys.
\*Cost analysis, Cost effectiveness. Insurance.
Health care facilities, Costs. Medical services,
Sharing, Hospitalizations
IDENTIFIERS: Cost sharing, Health maintenance

organization

If cost sharing is not included in a national herlth insurance plan, little additional demand is likely to be generated for hospital services. By contrast, substantial demand will be generated for other services, such as physician office visits. This demand increase will probably be spread across all income classes, not concentrated among the poor. all income classes, not concentrated among the poor. Large demand increases will cause services to be rationed. Exactly what the mechanisms for rationing will be is uncertain, but at least some of them would be considered undesirable. Therefore, if it is desired to eliminate cost sharing, a planned gradual phasing out of an initial deductible for the nonpoor appears attractive.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A032 202

17/2.1 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB 0'410 SCHOOL OF ENGINEERING

Demonstration of a Logistics Support Cost Model for Stage III of the Digital European Backbone Program.

(U)

DESCRIPTIVE NOTE: Master's thesis. SEP 76 130P Rose.Galen J. : SEP 76 130P Rose REPT. NO. AFIT/GSM/SM/765-22

UNCLASSIFIED REPORT

DESCRIPTORS: \*Communication and radio systems. \*Logistics support. \*Cost models. \*Life cycle costs. Radio equipment. Digital systems. Frequency

modulation. Theses
IDENTIFIERS: Digital European Backbone

(U)

(U)

project

This study provides a cost-based methodology for comparing alternative fixed ground communications radios. The study develops and demonstrates a life cycle logistics support cost model representing relevant initial investment costs and recurring maintenance and supply support costs. The scope of the study addresses only Stage 3 of the Digital European Backbone Upgrade Project. The cost model developed is an accounting model that aggregates the cost of thirteen separate Cost element aggregates the cost of thirteen separate cost element equations and requires 54 input data values. This methodology provides a systematic approach to estimating the relevant costs of proposed equipment options over their expected usage period. The model yields estimated cost results that indicate relative cost magnitudes and relative cost differential Comparisons as figures of merit between equipment alternatives. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A032 071 5/1

14/1 13/8 5/3

FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

Permutation Type Schedules on a Single Machine under Cost Criteria. (U)

DESCRIPTIVE NOTE: Research rept. JUL 76 21P Sivazlian.B. D.;
REPT. NO. RR-76-17
CONTRACT: DAHCO4-75-G-0150, AF-AFOSR-76-2605-76 PROJ: 20061102A14D

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Job shop scheduling, \*Cost analysis.
\*Sequences, \*Machine shop practice, \*Industrial production, Systems engineering, Processing, Degradation, Test and evaluation, Modular construction, Test equipment, Electronic (U)

equipment
IDENTIFIERS: Deferral costs, Discounted costs,
Overhead costs, Fault detection, AS:4D, PE61102A (U)

Optimal permutation type schedules are obtained for a class of n jobs one machine type problems using as criteria i. the total processing cost, ii. the total deferral cost, and iii/ the total processing and deferral cost. The set of seven models developed include cases when the machine deteriorates with usage, and when resetting of the machina is possible at the completion of each job. Particular attention is devoted to accounting for the time value of money, an important factor in the case of large tasks extending over prolonged periods of time such as construction projects. Use is made of a theorem in added time to the tention of all the underlying the structural equivalence of all the models considered. Finally, an application related to a modular configuration is discussed. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A032 C61 5/1 5/3 14/1 13/8

DEFENSE SYS EMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Analysis of the Need for Industrial Engineering Capability in Production at Electronic Systems Division.

(U)

DESCRIPTIVE NOTE: Study project rept.. NOV 74 48P Hardaway.Charles Edward :

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Industrial engineering, \*Design to cost. \*Industrial production. Cost analysis.
Materiel. Careers. Production control
IDENTIFIERS: Career management. Cost control (U)

This study examines the need for industrial engineering Capability within production at Electronic Systems Division (ESD).
Production is looked at from World war II to Production is looked at from World war II to the present time to show why production management is perceived today by many production management and high level functional manager as only the classical production management techniques of tracking, monitoring and expediting deliverables. The current emphasis or cost is then examined to show why this classical approach is no longer a viable approach to production management. It is shown that production management must include close interface between production management. It is shown that production management must include close interface between industrial engineering and design endineers to make early determination of producibility and manufacturing feasibility when the design is most flexible and trade-offs are least costly. ESD is analyzed to determine if the production management functions within the Deputates have appropriate functions within the Deputates have appropriate engineering capability to perform those functions. engineering Capability to perform these functions. Factors causing resistance to obtaining industrial engineering Capability in program production offices are discussed with a recommended plan for overcoming these resistance factors. This study was accomplished by document research and interveiws of key personnel involved in DOD acquisition. It shows that more engineering capability is required in the production functions of ESD.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A031 843

13/13 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary. (u)

DESCRIPTIVE NOTE: Facility systems integration design study. SEP 76 38P Alexander.Roland T.: Carmichael, Terence J. : Craig, William A. ; High, John T. : Inouye, Dom M ; REPT. NO. AFIT/GCE/MC/76S-1-VOL-1

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AO-A031 DESCRIPTORS: \*Warehouses. \*Modular construction. \*\*Logistics planning, \*Life cycle costs.

\*Structural engineering, Franes, Pile structures,
Steel, Fire prevention, Cost analysis, Energy,
Electrical engineering, Refrigeration systems.
Heating, Theses, Cemerts, Foundations(Structures)

The conceptual development and design of a general warehouse module for the Norfolk. Virginia area was accomplished. A life cycle cost analysis was made to furnish the Department of Defense with mace to furnish the Department of Defense with information to be used in a study of the service's material distribution system. The design embraced civil, mechanical, and electrical engineering aspects of the facility. Various structural schemes were investigated with regard to feasibility and flexibility within a range of building heights from 30 to 60 feet. Alternative methods of satisfying energy requirements were analyzed with the aim of maintaining specified internal environmental conditions and accommodating anticipated electrical loads. Design of an associated electrical distribution network and lighting system were included. A comprehensive discussion of fine protection considerations is also presented. The design results and economic analysis indicate: design results and economic analysis indicate:
(1) a braced frame steel structure is the most cost effective structural plan.

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UNCLASSIFIED DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A031 839 20/6 14/1 17/2

NAVAL FOSTGRADUATE SCHOOL MONTEREY CALIF

Life Cycle Costing of an Emerging Technology: The Fiber Optics Case. (U)

Final rept. Mar 75-Mar 76.

Dones.Carl R. :Johnson. DESCRIPTIVE NOTE: MAR 76 442P Jones.Carl R. :John Ronald L. :Knobloch.Earle W. :McGrath.John M. :Michna.Kenneth R. : REPT. NO. NPS-55Js76031

## UNCLATSIFIED REPORT

DESCRIPTORS: \*Fiber optics. \*Life cycle costs. \*\*Optical communications, \*Fiber optics transmission lines, Electrooptics, Optical waveguides, Data links, Cost effectiveness, Cost estimates, Cost models, Data transmission systems, Economic analysis (U)

DENTIFIERS: A-7 aircraft. ALDFT(Airborne light optical figer technology). Airborne light optical fiber technology. Optical fibers (U)

significant technological advances in fiber As significant technological advances in fiber optics and offical data transmission methods are being made, it is necessary to develop appropriate methods for estimating life cycle costs for alternative Coaxial/twisted pair wine and optical fiber avionics. In Volume One measures of effectiveness are suggested for each alternative effectiveness are suggested for each alternative system. An approach, which structures the technological and denand uncertainties of fiber optics, is developed through scenarios as a means of relating cost and effectiveness. It is suggested that Delphi and experience curve techniques be used in conjunction with ordered scenarios as a technological forejasting technique for estimation of life cycle costs of fiber optics. In addition, a review of the historical and technological background review of the historical and technological background of fiber optics and their application to the Naval Electronics Laboratory center (NELC) A-7 Airborne Light Optical Fiber Technology (ALOFT) Program is included. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A031 770 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATILM OHIO

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (6th) Held at St. Petersburg, Florida, on 25-27 February 1975. (U)

DESCRIPTIVE NOTE: DESCRIPTIVE NOTE: final rept., FEB 75 222P Stauffer.Russell B.; REPT. NO. AGMC-76-007

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycles, \*Cost analysis, \*Inertial systems, \*Meetings, \*Inertial navigation, Costs, Budgets, Logistics, Design to cost, Joint military activities, Maintenance. Spare parts. Management planning and control. Acquisition, Economics. Reliability(Electronics)

These proceedings describe the activities of the sixth quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held 25 - 27 February 1975 in St. Petersburg, Florida. The proceedings contain the texts and slides ("here available) of the invited papers and the results of sub-group meetings on creation of an LCC Task Group descriptive raper and preparation of input/output specifications and finalization of variable names for the LCC model under development. (Author) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A031 364 13/2 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A General warehouse Module Conceptual Design and Cost Analysis. Volume II. Main Text and Appendices, (11)

DESCRIPTIVE NOTE: Facility systems integration design Study. SEP 76 701P Alexander Roland T. : Carmichael.Teren v.d.: Craig.William A.: High.John T.: Inouye.Don M.: PT. NO. AFIT/GCE/#C/76S-1-VOL-2 REPT. NO.

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A031 843. SUPPLEMENTARY NOTE: See also Volume 1. AD-A031 843
Master's tresis.
DESCRIPTORS: \*warehouses. \*Logistics. \*Modular
construction. \*Cost analysis. Frames. Pile
structures. Steel. Fire prevention. Refrigeration
systems. Electric power distribution. Life cycle
costs. Theses

IDENTIFIERS: Tilt slab walls. Sodium vapor

The conceptual development and design of a Jeneral The conceptual development and design of a general warehouse module for the Norfolk. Virginia area was accomplished. A life cycle cost analysis was made to furnish the Department of Defense with information to be Used in a study of the Service's material distribution system. The design embraced civil, mechanical, and electrical engineering aspects of the facility. Various structural schemes were investigated with regard to reasibility and flexibility within a range of hydicing heights from flexibility within a range of building heights from 30 to 60 feet. Alternative methods of satisfying energy requirements were analyzed with the aim of maintaining specified internal environmental maintaining specified internal environmental conditions and accommodating anticipated electrical loads. Design of an associated electrical distribution network and lighting system were included. A comprehensive discussion of fire protection considerations is also presented. The design results and economic analysis indicate: (1) a braced frame steel structure is the most cost affective structural plan. (U) 

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A030 788

14/1 21/5

TELEDYNE CAE TOLEDO OHIO

Engine Systems Ownership Cost Reduction Aircraft Propulsion Subsystems Integration (APSI).

(U)

DESCRIPTIVE NOTE: Final rept. Apr 73-Aug 75
Aug 75 154P wagner, William : Gabrys.
Alfred : Knight, Wesley :
REPT. NO. TCAE-1467-Vol-2
CONTRACT: F33657-73-C-0620

PROJ: AF-668A TASK: 1

MONITOR: AFAPL

TR-75-100-vo1-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-C004

839L.
DESCRIPTORS: \*Life cycle ccsts, \*Turbofan engines.
\*Cost analysis, \*Gas turbines, \*Design to cost.
\*Savings, Low costs, Air Force procurement,
Cost benefits, Airframes, Interfaces, Integrated systems

IDENTIFIERS: Cost of ownership, Aircraft

propulsion

This report summarizes Teledyne CAE's experience and conclusions in developing reduced-cost adaptive components, airframe interface requirements. adaptive components, airframe interface requirements and integrated systems plans under the AFAPL—sponsoned Aircraft Propulsion Subsystem Integration (APSI) program. The APSI program is directed to evolving the Teledyne CAE Model 555 ATEGG into a turbofan Joint Technology Demonstrator Engine (JTDE). Reduced cost of engine ownership is one major objective of the APSI program. It was, therefore, deemed advisable to summarize that task into this document. Saction 2.0 of this report provides an overview of engine ownership costs, as perceived and evaluated by Teledyne CAE, in accomplishing APSI—program tasks. Section 3.0 describes the application of the cost reducing methodology, including the results of iterating the baseline and scaled engines and applying Design=to-Cost (DTC) methods during their design. Lection 4.0 advances 18 specific cost reduction topics.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOLXO7

AD-A030 782 15/5 14/1 13/10

OFFICE OF THE CHIEF OF NAVAL OPERATIONS WASHINGTON D C

Visibility and Management of Support Costs - Ships (VAMOSC II).

DESCRIPTIVE NCTE: Final rept. for Oct 75-Sep 76. SEP 76 225P Anderson.Joseph F. :Rogin.

SEP 76 225P Anderson.Joseph Leo :Flynn .John J. :Cook.Russell A. : Richter.Ronald P. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A008 334. DESCRIPTORS: \*Logistics Support. \*Naval vessels.
\*Naval logistics. \*Weapon systems. \*Management information systems. \*Logistics management. \*Cost analysis. Maintenance. Cost effectiveness. Costs. Resource management. Data bases. Life cycle costs.
Naval training. Naval personne!
IDENTIFIERS: TSS(Total support systems). Total
Support systems. MBD(Wanagement by Objective).

Management by objective. D and S[Cperating and support) costs. Operating and support costs. 3M systems. Fleet modernization program. Expendable Stores Costs

Weapon System 0 and 5 costs often exceed acquisition costs and a need has been identified to provide an 0 and 5 cost display for control at the weapon system and equipment managerial levels.

This study details the method for collecting detailed 0 and S costs for thins from existing Navy data systems. highlights the improvements necessary to collect full ship 0 and S costs. presents estimated costs, schedules, and the management organization for implementing an MIS to display these costs, and opposites a second wife. display these costs, and provides a sample MIS product for six ships. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Comparative Analysis of the Relationships of Total Distribution Costs between Airlift and Sealift.

DESCRIPTIVE NOTE: Master's thesis. JAN 74 115P Thomas J.; REPT. NO. SLSR-4-74A Boudreaux.Lionel A. :Cooper.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Airlift operations, \*Cost analysis, \*Logistics planning, \*Sea traffic, Logistics support, Personnel management, Salaries, Distribution
IDENTIFIERS: \*Sealift operations (U) (U)

Airlift and sealift are provided for the Department of Defense (DoD) by the Military Airlift Command (WAC) and the Military Sealift Command (MSC) respectively. Transportation services are paid for by the user through separate industrial funds. A comparison of the costing criteria used by each agency to establish tariffs, showing the relationship to user requirements, provides a foundation for measuring true Del transportation cost. requirements, provides a foundation for measuring true DoD transportation costs. In order to make recommendations which would strengthen the compatibility of the tariff structures, a comparative analysis was made of the costing criteria presently used. The primary recommendations are: (1) Separate and exclude the training costs resulting from maintaining the "trategic mobility policy; (2) Include the costs incurred at ocean terminals; (3) Exclude the cost of MSC project ships; (4) Include the pay of both civilians and military employees; and (5) Continue the use of the industrial fund concept. (U

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COC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A030 716

PERSONAL CONTRACT

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12/1 15/5

AIR FORCE ACADEMY COLO

The Use of Statistical Sampling in Contract

DESCRIPTIVE NGTE: Final rept..
AUG 76 28P Helmer.F. Theodore :Utter.

AUG 76 28P Harry: REPT. NO. USAFA-TR-76-17

## UNCLASSIFIED REFORT

DESCRIPTORS: \*Cost analysis. \*Air Force procurement. \*Contract proposals. \*Statistical samples. \*Statistical analysis. Contracts. Data bases. Cost models. Sampling IDENTIFIERS: \*Price analysis. Backlogs

(u)

(U)

This report provides the reader with the results of a study on the use of statist:cal sampling techniques on pricing cases in one Air Force Plant Representatives Office (AFPRO). The study representatives urrice (AFPRO). The study reveals that 38% of the AFPRO pricing workload is devoted to 1-1/2% of the contractual dollars and that 77% of the workload is devoted to 11% of the dollars proposed.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A030 649 12/2 12/1

STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH

A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems.

(U)

DESCRIPTIVE NOTE: Technical rept., AUG 76 82P Orkenyi,Peter; AUG 76 82P O-kenyi.Peter;
REPT. ND. TR-64
CONTRACT: ND0014-76-C-0418, NSF-Eng-75-14847 PROJ: NR-047-061

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Decision theory, \*Cost analysis.
\*Markov processes, \*Queueing theory, Optimization. (U) IDENTIFIERS: \*Semi-Markov decision processes

Semi-Markov decision processes with countable state and action spaces era investigated. The optimality criteria considered are the average cost

optimality criteria considered are the average cost criterion, the undiscounted cost criterion, and the discounted cost criterion, and the discounted cost criterion. The common assumption of bounded costs has been replaced by some considerably weaker conditions. In particular, our assumptions are weaker than those made by Harrison, Hordijk, Lippman and Reed when they considered the same problem. The existence of optimal solicies is investigated. Policy improvement is considered. Necessary and sufficient conditions for the optimality of a policy are given. Then the optimal control of queueing systems is considered by formulating this general problem as a semi-Markov formulating this general problem as a simi-Markov decision process. Finally, four different ways of proving the optimality of an unimprovable policy are developed in the context of queueing systems.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A030 646 12/2 12/1 14/1

STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH

Optimal Control of the M/G/1 Queueing System with Removable Server-Linear and Non-Linear Holding Cost Function.

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DESCRIPTIVE NOTE. lechnical rept. AUG 75 102P Orkeny:,Peter:
REPT. NO. TR-65
CONTRACT: NOC014-76-C-04:8. NSF-Eng-75-14847 PROJ: NR-047-051

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Queueing theory. \*Cost analysis. \*Decision theory. Utilization. Costs. Computers.
Time sharing. Optimization. Policies. Time
IDENTIFIERS: \*Cost functions. Idle time
utilizations. Removable server. \*Semi-Markov
decision processes

This report Considers the M/G/1 queueing system with removable server. The cases of linear and non-linear customer holding cost functions are both linear customer holding cost functions are both considered. Non-instantaneous stant-up times are allowed. The problem is to find an optimal oblicy for turning the server on and off. The optimality Criteria considered are the average cost criterion, the undiscounted cost criterion and the discounted cost criterion and the discounted cost criterion. A certain class of simple policies, the hysteretic policies, is considered. Natural hysteretic policies and non-degenerate hysteretic policies are introduced. It is chosen that there is hysteretic policies and non-degenerate hysteretic policies are introduced. It is shown that there is a natural hysteretic policy which is average optimal. And that if the start-up times are instantaneous or the holding cost function convex, then there is a natural hysteretic policy which is undiscounted optimal. When discourting is used, the results are not as strong, except for the case where the holding cost function is linear. For the non-linear case we still obtain certain fairly weak sufficent conditions for a natural hysteretic policy to be optimal. (Author) Optimal. (Author) (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 15/3

AD-A030 554

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MARTIN MARIETTA AEROSPACE ORLANDO FLA TECHNICAL INFORMATION CENTER

ife-Cycle Costing. A Selected Bibiliography.

%cClure.Lucille :

OCT 76 28P REPT. NO. RB-330-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs, \*Defense systems, \*Meapon systems, \*Data bases, \*Military procurement, Accounting, Finance, Cost estimates, Data bases, Economic models, Reliability IDENTIFIERS: Record keeping, Financial (U) (U)

Life-Cycle Costing is a Department of
Defense management concept that is applied in
estimating costs during the acquistion of complete
defense systems. The concept of Life-Cycle
Costing has been around for several years. A
great many of these years has been spent on bringing
together policy, procurement, record keeping,
financial control, and reliability cost estimates.
The Air Force has made the greatest use of this
concept but usually on small contracts. Only
recently has Life-Cycle Costing become a prime
consideration for all of the Armed Services.
The main problem, particularily in estimating costs
of undefined weapon systems, was the lack of a data
base. The few attempts made in collecting data
became so cumbersome that the sheer volume was
uncontrollable. Several hundred Life-Cycle
Cost models have been introduced but the cost
estimates remained unrealistic. To overcome this
problem, the Department of Defense has started a
data base Collection and storage system on the
operating and support Costs of some of the major
weapon systems. This data base should halp
estimators in establishing trade-offs and projecting
more realistic cost goals.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A030 548 21/5 14/1 15/5

NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA

Proceedings of OSD Aircraft Engine Design and Life Cycle Cost Seminar. Held at Naval Air Sevelopment Conten Warminster. Pennsylvania November 19, 20, and 21, 1975.

NOV 75 4732 Dienemann.Paul F. :Birkler.

J. :Pressman.A. :

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft engines. \*Life cycle costs. \*Military procurement. Seminars. Cas turbines. Cost estimates (0) IDENTIFIERS: Design

The objective of the seminar on aircraft engine design and life cycle cost was to provide a forum and opportunity for government and industry representatives to exchange ideas and information about reducing costs of both current and future (U) turbine engine programs.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A030 519 5/1 15/5

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

5/3

Consolidation of RPMA at Fayetteville, NC. Volume III. Cost Analysis Support and Backup Data for the Consolication of RPMA in the Fayetteville, NC Area.

DESCRIPTIVE NOTE: Final rept. SEP 76 380P Brown :Nay.J. L. :
REPT. NO. CERL-TR-C-73-Vol-3
PROJ: CERL-75-5 Brown.D. W. ;Kirby.J. G.

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4. AD-A041 DESCRIPTORS: \*Maintenance management, \*Cost \*Cost effectiveness, \*Army operations, Economic analysis. Data acquisition, Army budgets
IDENTIFIERS: RPMA(Real Property Maintenance
Activities), \*Real property maintenance
activities. \*Army industrial fund organization. (U)

This report presents the cost analysis support and the backup economic data used by the U.S. Army Construction Engineering Research Laboratory's (CERL) rpma Study Team to evaluate the feasibility of Consolidating real property maintenance activities (RPMA) at Fort Bragg and Pope AFB, NC. Included are the research study plan, the Army Industrial Fund description and cash flow procedures, the legal analysis for consolidation actions, general concept of the Army Industrial Fund Organization, an analysis of the fiscal year (FY) 75 current method of operation and the proposed consolidation, implementation costs, and an environmental impact This report presents the cost analysis support and implementation costs, and an environmental impact assessment. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Consolidation of RPMA at Fayetteville, NC. Volume II. Summary Cost Analysis for Co molidation o. PPMA in the Fayetteville, NC. Area.

DESCRIPTIVE NOTE: Fina hept..
SEP 76 81P Brown.D. W. :Kirby.J. G. SEP 76 81P Brown :Nay.U. L. :
REPT. NO. CERL-TR-C-73-Vol-2
PROJ: CERL-75-5

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A030 519.
DESCRIPTORS: \*Maintenance management. \*Cost analysis. \*Army planning. \*Integrated systems. \*Cost effectiveness. \*Army operations. Economic analysis. Data acquisition. Army budgets IDENTIFIERS: RPMA(Real Property Maintenance Activities). \*Real property maintenance activities. Army industrial fund organization. (U) Consolidation (U)

This report summarizes the results of an economic analysis performed to determine the feasibility of consolidating real property maintenance activities (RPMA) in the Fayetteville. NC area (Fort Bragg/Pope AFB). Results indicate that consolidation of RPMA at fort Bragg and Pope AFB using an Army Industrial Fund Organization is feasible and economically desirable. Based on the actual fiscal year (FY) 75 workload, the consolidated Creanization could generate sayings of between \$814,000 (2 percent of combined FY 75 cost) and \$1.184,000 (3 percent of combined FY 75 cost). Manpower reductions of 83 to 100 (6 to 8 percent) are to be expected. No loss of responsiveness or quality of work is expected. The new implementation costs of \$718,000 should be recoverable within the first year of operation. (Author) This report summarizes the results of an economic

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AD-A030 519

Consolidation

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A036 508

17/2 14/1

COMPUTER SCIENCES COSP FALLS CHURCH VA

NSW GCOS Connection.

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DESCRIPTIVE NOTE: Interim rept. 32 Mar-12 Jun 76.

JUL 76 94P Grimes.Rcbert J.:

CONTRACT: F30602-76-C-0199

PROJ: AF-5550

TASK: '555008

MONITOR: RADC TR-76-228

UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer Communications. \*\*Communications networks, \*Computer program documentation. \*\*Computer files. \*\*Cost benefits. Computer programs, Interfaces, Savings, Access. Digital computers, User needs
IDENTIFIERS: \*\*Computer Software, Host

IDENTIFIERS:

computers

This report provides a detailed examination of four specific alternatives providing an interface between the Honeywell H6180 (GCOS) and the ARPANET. The ultimate goal is to allow the H6180 to participate in the National Software Works (NSW) as a Tool Bearing Host (TBH). A configuration consisting of the H6180, Asynchronous Bit Serial Interface (ABSI), a PDP-11 operating as a network front-end (NFE) and the network IMP comprised the best alternative. (Author) (Author) (U) UNCLASSIFIED

DOC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZONOT

AD-A030 348 5/9 5/3

DEPUTY CHIEF OF STAFF FOR PERSONNEL (ARMY) WASHINGTON D

Review of Permanent Change of Station Travel Entitlements.

DESCRIPTIVE NOTE: Final nept. 20 May-30 dul 76. dUL 76 116P Seelig.Louis C.:Frost. Stanficid . dr.:Schnader.Daniel M.:Sestric. Joseph L. :

UNCLASSIFIED REPORT

Availability: Microfiche copies unly.
SUPPLEMENTARY NOTE: Prepared in cooperation with the Departments of the Air Force, Navy and Marine

DESCRIPTURS: \*Military personnel. \*Transfer. \*Cost analysis. Rates. Military dependents. Policies. Transportation. Personnel management. Military law. Standards. Assessment. Reviews DENTIFIERS. Change of stations. Travel

(U) allcrances {U}

The purpose of the review was to determine the appropriate method and amount of payment which should be paid to numbers of the Uniformed Services amon ordered to make a change in permanent duty station. The scope of the review was not limited to the individual service member, but included the impact on the dependant of the member transported on premanent the dependents of the member transported on pormanent change of station Orders. The review was limited to moves within the continental limits of the United States- (Author) (U)

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DDC REPORT BIBLIOGRIPHY SEARCH CONTROL NO. ZGMO7

AD-A030 296 13/6 5/3 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB CHIC SCHOOL OF SYSTEMS AND LOGISTICS

The Feasibility of a Fare Bus System for work-Commuting at wright-Patterson AFB.
Ohio.

(U)

DESCRIPTIVE MOTE: Master's thesis.

URN 76 111P Snummay.Thomas R. :Tonjes.
Earl A. :

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Passenger vehicles. \*Cost effectiveness. \*Routing. \*Rates. Optimization. Cost estimates. Air Force planning. Feasibility studies. Theses

LOSATIFIERS: Bus fares. \*Vass transit. Fares. Commuting. Convenience, \*right-Patterson Air Force Base (U)

The purpose of the thesis was to determine the feasibility of a bus system charging a fare for work-commuting and to determine whether frequency, convenience, and travel time preforences varied in importance in the population. A questionnaire was used to survey military residents of wright—Patterson AFB housing areas. Varying levels of demand and revenue were computed based on survey information. An example route was devised for purposes of analysis. The authors found that a subsidy would be required for a work-computer system. Benefits from mass transit were presented for use by managers deciding on the feasibility of establishing a work-commuter system. Chi-Square One-Sample and Kruskal-wallis One-way Analysis of Variance tests were used to determine the rank order importance of frequency. Convenience, and travel time. The test revealed that the population was indifferent to the three factors. (Author)

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DDC REPORT BIBLIOGRAPHY SEAFCH CONTROL NO. ZOMOT

AD-A030 240

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB CHIC SCHOOL OF SYSTEMS AND LOGISTICS

The Accuracy of Air Force Meason System Cost Estimates as a Function of Time.

DESCRIPTIVE NOTE: Waster's thesis.
JUN 76 153P McLeod.Hugh S. . III:
Phillips.deffrey J. :
REPI. NO. SLSR-5-764

14/1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost effectiveness. Cost estimates.
keapon system effectiveness. Contract
administration. Department of Defense.
hegotiations. Network analysis[Management].
Linear regression analyses. Time studies. Accum

Repeated experiences with unrealistic system acquisition cost estimates hade by defense contractors and the Department of Defense have seriously undermined the willimpness of Congress and the general public to fully support Current and new acquisition programs. To facilitate regaining this support for defense programs, improvement in the accuracy of acquisition cost estimates is needed. In attempting to identify the factors that influence the accuracy of these cost estimates, this study is focused on the relationships between the accuracy of activity—cost estimates and three factors—the estimate's distance from the activity stant date, the project stant date, and the machitude of the activity cost. Four accuracy measures were used the cagnitude and direction of the estimate error expressed as a percentage of the activity—cost, the absolute value of this error, the machitude and direction of the estimate error expressed as a dollar value, and the absolute value of this error. The date has consisted of 102 cost estimates for elentynine activities. A strong relationship was found between accuracy and the magnitude of activity cost. Meaker relationships were found between accuracy and the activity and the activity

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOZ

AD-A030 239

14/1 15/5 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Taxonomy of Cost Estimating Characteristics as Applied to an Aircraft Replenishment Spares Model.

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DESCRIPTIVE NOTE: Master's thesis,
JUN 76 206P Nelson,Eric E.; Smith,
William E.; REPT. NO. SLSR-01-76-A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates, \*Air Force procurement, \*Air Force b. dgets. Air Force Logistics Command, Theses, Weapon systems, Replenishment, Investments, Aircraft, Uncertainty, Taxonomy
JDENTIFIERS: Replenishment Investment spares

Department of Defense Cost estimation requires

improvement, particularly as it applies to budgetary estimates for major weapon system acquisitions. estimates for major weapon system acquisitions. This research explores ways or mproving cost estimating methodology by the evelopment of a taxonomy of cost estimating characteristics which may be used as a guide in Constructing and evaluating cost estimating models. Such a guide was developed on a framework of systems theory and applied to the construction of a conceptual model designed to estimate replenishment investment spares budgetary requirements for the Air Force Logistics Command (AFLC) in support of major weapon systems acquisitions. The taxonomy of cost estimating characteristics was then used to evaluate the conceptual model and the present AFLC ruplenishment investment spares model. The research demonstrated the Leefulness of a taxonomy of cost estimating the Leefulness of a taxonomy of cost estimating characteristics and concluded that budgatary estimates for replenishment investment spares could be improved. (Author)

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CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A030 217 9/2 14/1

AIR FORCE INSY OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

15/3

The Effects of Developmental Software on the Acquisition Management of Aeronautical Computer systems.

DESCRIPTIVE NOTE: Master's thesis. JUN 76 127P Craig E. : Marshall.James R. :Chapman.

REPT. NO. SLSR-13-76A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer program documentation. \*Computer programs. \*Cost analysis. \*Weapon systems. Computers. Air Force procurement. Interfaces, Validation, State of the art. Scheduling. Theses
IDENTIFIERS: \*Computer software, Cost

Overruns

The purpose of this research was to determine if the developmental software aspect of aeronautical Computer system acquisitions was the cause of program cost overruns and schedule extensions. The hypothesis was that developmental software does cause program cost and schedule overruns. A structured interview was used to obtain data concerning three variable characteristics of developmental software: variable Characteristics of developmental software software design and interface requirements, and software testing (validation and verification). A census of all c:-going programs at Aeronautical System Division, Wright-Patterson AFB, Ohio, as of 1 January 1976. was performed. Criteria tests on the correlation of data with program cost and schedule changes was conducted to establish support for the hypothesis. The hypothesis could not be supported. Additional analysis coupled with observations compiled during the interviews indicated that it may not be the case that aeronautical weapon system acquisitions are being approached from a total system point of view. but rather that subsystems are being optimized to the detriment of the total weapon system acquisition. The authors feel that this suboptimization is a Contributing sause to cost overruns and schedule extensions.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF **ENGINEERING** 

An Exploratory Study of Software C.st Estimating at the Electronic Systems

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DESCRIPTIVE NOTE: Master's thesis, JUL 76 60P Devenny, Thomas J. : REPT. NO. GSM/SM/76S-4

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer program documentation. \*Cost estimates, \*Computer programs, \*Weapon systems. Computer programming, Decision making, State of the art, Performance, Costs, Command and Control systems, Research management, Theses IDENTIFIERS: \*Computer Software

The estimate of software development cost is the key piece of information in many software management decisions. No technique exists which can consistently produce the reliable and accurate cost estimates which managers need. This thesis research effort exploned the software cost estimating process at the Electronic Systems Division of the Air Force Systems Command. The purpose of the research was to provide managers, researchers, and cost estimators with a better insight into the cost estimating process. Data were gathered from 16 major software acquisitions at ESD using both a structured interview and contractor furnished Cost performance Reports. The research findings identified some major problems which are currently inhibiting the development of accurate and reliable identified some major problems which are currently inhibiting the development of accurate and reliable software cost estimates. To reduce these problems, recommendations are made to adopt a common cost estimating technique and to modify the use of contractor furnished software cost information, while the research was limited to ESD, the rusearch findings and the recommendations may be applicable to other DoD software acquisition agencies. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A030 146 1/3 15/5

RAND COPP SANTA MONICA CALIF

Scheduled Maintenance iblicies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program. (0)

JUN 76 75P Elwell.Ralp\* : Roach, Chris : REPT. NO. R-1942-PR CONTRACT: F44620-73-C-0011

## JNCLASSIFIED REPORT

DESCRIPTORS: \*Tactical Air Command. \*Jet fighters. \*Maintenance. \*Cost effectiveness. \*Logistics planning. Inspection. Aviation safety. Scheduling. Manpower. Savings. Policies. Air Force planning. Logistics management IDENTIFIERS: F-4 aircraft. Holloman Air Force (0) (8) Base

Maintenance procedures for the F-4 aircraft in Maintenance procedures for the F-4 aircraft in support of the AF Haintenance Posture Improvement Program were examined. The F-4 has been receiving maintenance on two independent schedules, one being a major calendar-based overhaul at a depot, the other being less drastic maintenance phased into six evenly spaced inspections and cyclically performed at the air base every 450 flying hours. It was found that: (1) certain minor inspections were lanceessant or improcessantly. inspections were unnecessary or unnecessarily frequent; (2) it was possible, with safety, to extend the base to 600 hours; and (3) many individual base inspections could be performed more efficiently during the dismantling at the depot. With all three steps implemented, it is estimated that, for the entire F-4 force, 1,537,500 maintenance man-hours (over 70 percent) per year would be saved. Furthermore, the number of bircraft tied up in the inspection docks on any given day would be reduced nearly 70 percent -- from 129 to

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Historical Analysis of Total Package Procurement, Life Cycle Costing and Design

(U)

DESCRIPTIVE NOTE: Master's thesis, JUN 76 130P Busek, Joseph R. , Jr; REPT. NO. GSM/SM/76S-3

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Military procurement, \*Cost estimates. \*Management planning and control. Cost estima
\*Management planning and control. Cost analysis,
Life cycle costs, Cost benefits, Cost
effectiveness, Comparison, Cost overruns,
Contracts, Failure, Deficiencies, Scheduling,
Confidence limits, Department of Defense. History
IDENTIFIERS: \*Design to cost, Total package (U) procurement (U)

This study is the result of an attempt to prepare a historical analysis of the three major Department of Defense efforts developed to control costs in the acquisition process. Some might argue that other concepts, such as Value Engineering, PIECOST, or Should Cost, should be included, however, it is believed that the ones presented here represent the approaches most relevant to individuals represent the approaches most relevant to individuals involved in program control. The concepts analyzed include Total Package Procurement, Life Cycle Costing, and Design to Cost. The study is directed toward the individual with little knowledge of the concepts. It is designed to provide the reader with a general knowledge of what each concept is, when it is used, what some major ground-rules governing the Concept's use are, and what some of the significant strengths and weaknesses of the concept are. of the concept are.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 5/1

AD-A030 099

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OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Force Planning Cost Handbook.

JUN 76 755P

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes report dated Jun 75. AD-4014 084. DESCRIPTORS: \*Army procurement. \*Army planning. \*Army budgets. \*Cost analysis. \*Handbooks.
\*Logistics planning. Yanagement information systems. Force level. Army equipment, Management planning and control. Army operations, Army training. Manpower, National defense, Weapon systems. Deployment DENTIFIERS: Programming planning and budgeting.
Force deployment. Military force structure

The Army force Planning Cost Handbook The Army force Planning Cost Handbook (AFPCH) is organized into six sections for ease in locating the types of data contained therein and for its orderly presentation. Section 1 is an introduction to the AFPCH, its contents and usage: Section II contains per capita cost factors previously published in the Summary Cost Data Book for Army Managers: Section III contains detailed Costs for major combat and combat supports units, together with methodology previously published in the AFPCH. Annex A Published in the AFPCH. Annex A (classification condifential) to Section III (classification condifential) to Section III contains selected SRCs where future weapon systems have been substituted for the currently authorized systems: Section IV contains costs of 'notional' type division force equivalents, including support elements; Section V contains factors and methodology for estimating the cost of reserve units and. Section VI contains operating and support cost factors, as referenced in Appendix C. DA Pamphlet No. 11-4, for developing life cycle cost of material systems. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A030 069 17/7 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION DHIO INDUSTRIAL ENGINEERING SUPPORT DIV

AGMC Life Cycle Cost Model, an Accounting Model for Inertial Navigation Systems. (0)

DESCRIPTIVE NOTE: Final rept.,
AUG 76 70P Rogge,Richard W.;
REPT. NO. AGMC-XRX-76-3

## UNCLASSIFIED REPORT

Availability: Microfiche copies only. DESCRIFTORS: \*Inertial navigation, \*Life cycle costs, Cost models, Cost analysis, Accounting (11)

This report described the accounting Model developed by AGMC to evaluate the Life Cycle Costs of Inertial Navigation Systems. However, it is a general purpose Model and may be tailored for other than Inertial Navigation Systems by simply re-naming parameters as applicable. The purpose of the Model is to provide a method to compare two or more types of systems, or maintenance options on the same system. It provides a simplified approach to modeling costs, as the number of different types of input data required is relatively small. This Model has the capability of isolating and identifying start-up costs and recurring costs. It allows analysis through three indenture levels: Line Replaceable Units (LRU), Shop Replaceable Units (DRU). Included in this report are a description This report described the accounting Model (DRU). Included in this report are a description of parameters, Model equations, a sample run print out and a program listing of the Model. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A030 024 5/3 1/3 15/5

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft).

(U)

DESCRIPTIVE NOTE: Final rept..
SEP 76 80P Lilge.Ralph w. :
REPT. NO. USAAVSCOM-TR-76-1A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Army procurement. \*Inflation(Economics). \*Army procurement.
\*Inflation(Economics). \*Army aircraft. \*Cost
analysis. \*Computer programs. Aircraft. Avionics.
Airframes. Computerized simulation. Cost models.
Aircraft engines. Time series analysis. Cost estimates. Computations. Methocology. History. Indexes
IDENTIFIERS: Inflation(Economics), Prices

This report extends and revises Technical Report 76-1 which presents and describes the Historical Inflation Program, a computerized program generating hit rical inflation for the procurement of Army aircraft. The program can be updated monthly, is easily revised for changes in Bureau of Labor Statistics methods, and capable of handling data through the transition year. FY
7T. Output is expressed as monthly, quarterly,
calendar year inflation indices (in Calendar
year 1967 base) and inflation factors (in any
Fiscal Year base). This report contains
updated tables of iniation factors, expressed in a
FY 76 base. These indices and factors provide a
means of adjusting historical cost data for the Procurement Of Army aircraft to constant year dollars. New features added since the previous report include: computations for the Derivation of Revised Weighting Factors, detailed indices enabling the adjustment of historical Labor and Material costs separately, and the demonstration of the application of a Time Series Analysis technique known as Box-Jenkins Autoregressive Integrated Moving Average (ARIMA) models to the forecasting of inflation indices.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A029 987 17/4 14.1

DECISIONS AND DESIGNS INC MCLEAN VA

An Application of Multi-Attribute Utility Theory: Design-to-Cost Evaluation of the U.S. Navy's Electronic markers System.

UNCLASSIFIED REPORT

DESCRIPTORS: \*Electronic warfare. \*Design to cost. Naval Budgets, Costs, Department of Defense. Cost estimates, Cost models, Utilization, Theory

IDENTIFIERS: Multiattribute utility functions

This report reflects the development, validation, and utilization of a multi-attribute utility (MAU) model for use by the Naval Electronic Systems Command (NAVELEX) in comparing and evaluating six Electronic Warfare (EW) suite design proposals submitted by contractors under new design-to-cost policies enunciated by the Department of Defense (DoD).

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-8029 748 9/2 14/1

MITRE CORP BEDFORD MASS

A Review of Software Cost Estimation Methods. (U)

E: Technical rept. DESCRIPTIVE NOTE: AUG 76 56P C1 REPT. NO. MTR-3264 CONTRACT: F19628-76-C-0001 Clapp.J. A. ; AF-572H PROJ: MONITOR: ESD TR-76-271

UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer program documentation. \*Computer programs. \*Cost estimates. Computer programs. \*Cost estimates. Computer programming. Variables. Data bases. Costs. Errors. Machine coding IDENTIFIERS: \*Computer software. \*Cost

estimation (U)

Software costs are becoming an increasingly larger portion of the cost of major military systems. This report presents the basic problems in estimating the cost of software development. Current strategies for making estimates are summarized and evaluated. Changes in the management of software acquisition and in the software development methods for large defense systems can improve software cost estimation. A number of these changes are identified. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

15/7 14/1 AD-A029 670

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

A case Study of the Combined Arms Combat Developments Activity, Cost Consideration in Decisionmaking Regarding Combat Development Studies.

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DESCRIPTIVE NOTE: Final rept.,
JUN 76 91P Reinhard,Ransford A.;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: \*Army research, \*Combat effectiveness. DESCRIPTORS: \*Army research, \*Combat effectivener\*
\*Cost benefits, Army planning, Decision making,
Contracts, Manpower utilization, Resources,
Shortages, Military requirements, Determination,
Military doctrine, Army budgets, Army personnel,
Civilian personnel, Theses
IDENTIFIERS: \*Combined Arms Combat Development Activity

This thesis address... the problem of whather cost-benefit analysis would assist the manager in decisionmaking regarding combat developments studies within the Combined Arms Combat Developments within the Combined Arms Combat Developments
Activity (CACDA) and develops a basis for
improved decisionmaking techniques. The case study
determined that CACDA is a professional and
competent organization capable of developing
recommendations, alternatives, or solutions to many
critical problems facing the Army; however, this
capability has been degraded because CACDA has been capability has been degraded because CACDA has been tasked to undertake more combat developments studies than it has the capability to conduct. As a result of this excessive work load, significant delays in the planned completion of studies were experienced, and the desired validation of other studies may not have been possible. This situation resulted because the present system and management tools do not provide sufficient criteria for identifying the more positical studies and reducing the scope or critical studies and reducing the scope or eliminating the others. The study concludes that:

(1) CACDA managers need an analytical tool to assist them in decisionmaking and developing recommendations to higher headquarters regarding whether a study should be conducted as proposed, (U)

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DDC REPGRE BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A029 495 14/1 15/3

AIR FORCE TEST AND EVALUATION CENTER KIRTLAND AFB N

Cost of Ownership Handbook.

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MAY 76 218P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.
DESCRIPTORS: \*Cost analysis. \*Cost estimates.
\*Handbooks. \*Life cycle costs. \*Defense systems.
Models. Military procurement. Aircraft. Manpower. Maintenance IDENTIFIERS: \*Cost of ownership. Subsystems. Overhead

This handbook provides a definition of cost of ownership (operating and support costs) and provides the methodology for estimating and analyzing cost of ownership of systems and subsystems. All costs incident to ownership are considered including associated overhead costs. Included in the handbook is a generalized model which can be adapted to diverse systems and subsystems. Suggested data sources are included to guide users in data collection. (Author) (U)

AD-A029 495

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 482 17/7 14/1 15/5 5/1

DEFENSE SYSTEMS MANAGENENT SCHOOL FORT BELVOIR VA

Cost Effective ILS. A Case Study and (U) Evaluation.

DESCRIPTIVE NOTE: Study project rept.. NOV 74 55P Grubb.James R.; PROJ: DSMS-PMC-74-2

# UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: \*Logistics support, \*COst
effectiveness, \*Inertial navigation. \*Systems management, Naval procurement, Integrated systems, Cost estimates, Life Cycle costs, Dieglay systems, Stabilized platforms, Avionics, Doppler radar IDENTIFIERS: \*Integrated logistic support

The nurpose of this case study is to determine, through the analyses of the acquisition of a system. the areas which impact achieving ILS in a cost effective manner. The problem areas are identified in the case and recommendations are made to correct situations which impair achieving cost effective (U) ILS. (Author)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. 20MO7

15/5 AD-A029 330 19/1

ARMY ARMAMENT COVMAND ROCK ISLAND ILL COST ANALYSIS

Ammunition Cost Research Study.

DESCRIPTIVE NOTE: Technical medt..
JUN 76 175P Kalal.Gera
Patrick d.:
REPT. MQ. DRSAR-CPE-76-4 Kalal.Gerald W. : Gannon.

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.
DISCRIFICES: \*Army procurement. \*Ammunition. \*Cost
estimates. Cost models. Ammunition components.
Automatic \*eapons. Guns. TanksiCombat
vehicles). Investment expenditures. Production
engineering. Industrial plants. Wilitary facilities. Army planning

At the complete round level of detail. statistically valid cost estimating tools for statistically valid cost estimating tools for independent parametric cost estimates of ammunition investment costs have been difficult to construct. The long life stan of ammunition items reduces the number and range of data points available for a given weapon system class (e.g., tank main-armament). To counter this problem, a research project has been undertaken to develop cost estimating tools for ammunition components. This report demonstrates how component-level cost models can be used to amulation components. Into report demonstrates now component-level cost models can be used to independently estimate medium-norm automatic cannon and tank main-mamment ammunition investment costs with greater statistical validity than has been obtained with past approaches. The investment cost models cover ammunition initial production facilities (IPF) and procurement.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 318

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ARMY MISSILE COMMAND REDSTONE ARSENAL ALA COST ANALYSIS

Dependent (Conditional) Probability Aspects of Cost Estimating.

AUG 76 17P Murphy. Edward L. , Jr:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost Estimates, \*Statistical analysis, Probability, Operations research, Weapon systems, Military procurement, Methodology (U)

An analytical procedure can be applied to provide decision makers with insight for making an optimum decision. The procedure is not limited to consideration of only three variables. It can be applied to evaluate conditional aspects of performance cost or time of one part of a system with one or more parts of the same or other systems. (I

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. 20007

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DEFENSE SYSTEMS MANAGEVENT SCHOOL FORT BELVOIR VA

The Dilemma of Uncertainties Associated with Cost Estimating in the Project Management

(U)

(U)

DESCRIPTIVE NOTE: Student study rept..
MAY 76 42P Davis.Guy W.: MAY 76 42P PROJ: DSWS-PVC-76-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Program Management Course.
DESCRIPTORS: \*Army procurement. \*Cost estimates. \*Contract administration. \*Management planning and control. Uncertainty, Cost analysis. Military planning, Contracts, Systems management.

Department of Defense, Defense systems

The purpose of the study was to investigate the dilemma of uncertainties associated with the cost estimating process in an Army Program Management Office during the systems acquisition process. In pursuing this objective, the study examines general approaches and purposes for preparing cost estimates and the problem areas which introduce uncertainties in the estimating process. The problems of primary concern were found to be in unforeseen program changes, inflation, inaccurate cost estimating, technical problems, and the lack of information. Cost estimating, technical problems, and the lack of information. The report concludes with a discussion of various concepts being implemented to deal with uncertainties, and recommendations for improving estimating procedures in the project office.

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DDC REPORT BISLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Design to Cost and Life Cycle Costing: Complementary or Dichotomous.

DESCRIPTIVE NOTE: Student study rept..
NOV 74 60P McDonald.warren Randolph;
PROJ: DSMS-PMC-74-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Program Management Course. DESCRIPTORS: •Military procurement. •Design to cost. \*Life cycle costs. \*Management, Plesign to Cost.
\*Life cycle costs. \*Management planning and control.
\*Logistics management, Policies. Department of
Defense, Air Force procurement, Air Force
planning, Military requirements, Cost estimates.
Research management, Air Force training. (u) Military budgets

The purpose of the study was to research two significant acquisition concepts, namely, design to cost and life cycle costing, to examine whether these concepts are complementary or dichotomous, and to isolate relevant implications for program managers. (U) UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO?

AD-AC29 198

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AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Hard Data Sources Concerning More Cost Effective Maintenance.

(U)

DESCRIPTIVE NGTE: Final professional paper.

JUL 76 15P Foley.John P. Jr:
REPT. NO. AFPRL-TR-76-58
PROJ: AF-1710
TASK: 171004. 171010

UNCLASSIFIED REPORT

DESCRIPTORS: \*Maintenance, \*Human factors engineering. \*Cost effectiveness. Life cycle costs. Air force training. Electronic technicians Erlisted personnel. Job training. Job analysis. Instructions. Military planning. Skills

The paper introduces the interested reader to a number of maintenance related numan factors technologies and topics. These are important in reducing life cycle costs of hardware systems. The high costs related to maintenance and maintenance personnel are primary causes of high life cycle costs. The type and length of many maintenance training programs, as well as job structure make substantial contributions to such costs. The topics discussed in the paper include job performance. discussed in the paper include job performance criteria: identification of maintenance tasks: measurement of ability to perform identified maintenance tasks: ways of chtaining the efficient performance of such tasks, such as job performance aids and task oriented training; the requirement for the restricture of maintenance jobs; as well as the need for integrating human factors maintenance technologies.

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TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO

A Study to Develop Management Indices for the Chief of Naval Education and Training. Phase II - Capital Resource Indices.

DESCRIPTIVE NOTE: Rept. for Feb-Jul 76.
JUL 76 51P Swope.William M Swope.William M. :Cordell. JUL 76 Curtis C. ; REPT. NO. TAEG-TM-76-2

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval :raining, \*Cost analysis, Economic analysis, B:cgets, Management information systems, Time series analysis, Resource managemen

This report covers he second phase of a four phase study undertaken by TAEG at the request of CNET to investigate the need for improvement in the quality of management information. This report quality of management information. This report develops recommendations for a set of management indices covering the use of capital resources. This report provides the CNET and lower echelons of command a set of tools which can be used to identify inefficiencies that exist in the use of training resources. These indices will provide information useful to the decision maker in the establishment of policy, long-range planning, and the management of resources.

#### UNCLASSIFIED

DDC REFORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 179

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO

Training Resource Classifications: Direct-Indirect and Fixed-Variable Cost Categories.

14/1

(U)

DESCRIPTIVE NOTE: E: Special rept. Feb-dum 76. 23P Swope.William M.:Cordell. JUN 76 Curtis C.: REPT. NO. TAEG-TM-76-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Training. \*Lost effectiveness. Nav budgets. Cost analysis. Management planning and control. Classification IDENTIFIERS: Training resources -ost effectiveness. Naval (U) (U)

At the Chief of Naval Education and Training (CNET) sponsored workshop held on 10 and Training (CNET) sponsored workshop held on 10 and 11 February 1976 to discuss the development of CNET management indices, the workshop participants recognized that ambiguity exists in the definitions used to classify training resources. CNET tasked the training Analysis and Evaluation Group to investigate the adequacy or current definitions of direct and indirect costs. The four resource cost Categories of direct, indirect, fixed, and variable cause the createst misunderstanding. This cause the greatest misunderstanding. This memorandum discusses the difficulties encountered when using these classification schemes and offers a set of definitions which attempts to remove the ambiguities associated with their use. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A028 965 17/9 14/1

RAYTHEON CO HUNTSVILLE ALA EQUIPMENT DI.

Cost Effective Solid State Transmitter (U) Study.

9/5

DESCRIPTIVE NOTE: Final rept. Apr 75-Apr 76.
JUN 76 151P Soler,Gscar L.;
CONTRACT: F30602-75-C-0142

PROJ: AF-4506 TASK: '450603

MONITOR: RADC TR-76-191

UNCLASSIFIED REPORT

DESCRIPTORS: \*Radar transmitters. \*Cost effectiveness, Transmitter receivers, Solid state electronics, Modules(Electronics), Cost models. Life cycle costs, Cost analysis, Reliability(Electronics) (u)

Cost models were developed based on the Derformance and Dhysical characteristics of solid state modules. and unit cal characteristics of solid state rougher. The cost hodels are sensitive to power, frequency, bandwidth, device characteristics, noise figure, reliability and quantities. However, they are totally independent of specific configuratio. Inus enabling cost estimation of any module configuration.

power level, frequency, etc. The models were then used to exam ne cost sensitivity to frequency, power output and cevice junction temperatures. This provided guidelines for cost effective design in provided quiderines for cost effective design in terms of power levels and operating junction temperatures. Also developed were estimates of 'do'lars per watt' for UHF, L and S bands. Comparable solid state and tube transmitters were postulated at the three bands of interest. The study showed that for certain applications solid state systems are competitive with tubes when total life cycle costs are considered.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MOT

AD-AC28 951

15/5 14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Issues and Problems in Life Cycle Costing in DOD Wajor Systems Acquisition.

(11)

DESCRIPTIVE NOTE: Student study rept.
NOV 74 35P Reynolds.Jon Reynolds.Jon F. : PROJ: DSWS-PNC-74-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Program Management Course.
DESCRIPTORS: \*\*#ilitary procurement. \*Life cycle costs. \*Nanagement planning and control. \*Logistics management. Department of Defense. Policies Military planning. Military requirements. Weapon Systems. Research management. Cost estimates. Cost analysis. Maragement engineering (11)

Life cycle costing (LCC) is a widely advocated economic analysis tool and procurement technique in the Department of Defense. However, little information is reacily available on the considerable difficulties which exist in implementing or employing LCC as a practical, convenient, everyday tool in defense decision making. This study was undertaken to highlight the weaknesses and limitations of LCC as a means of strengthering it through more enlightened applications and more productive development of LCC methodology. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A028 922 20/1 5/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Cost Effectiveness of Alternative Noise Reduction Wethods for Construction of Family (U) Housing.

DESCRIPTIVE NOTE: Interim rept.,
JUL 76 92P Schomer.P. D. ;Kessler.F.
M. ;Chanaud.R. C. ;Homans.B. L. ;McBryan.

J. C.; REPT. NO. CERL-IR-k-3 PROJ: DA-4-A-762720-A-PROJ: DA-4-A-762720-A-696 TASK: 4-A-762720-A-89602

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Noise reduction, \*Housing projects, \*Construction, \*Cost effectiveness, Residential section, Sound transmission, Construction equipment, Noise pollution, Military engineering, Texas. Charts. Graphs
IDENTIFIERS: Family housing. Noise level. Fort (U)

Hood(Texas) (U)

The objective of this work was to obtain the cost/ benefit relationshins associated with new, quicter construction equipment and/or construction process modification. A workable cost/benefit model was developed for this purpose, but a significantly developed for this purpose, but a significantly larger data base must be acquired to apply this model. This initial work effort concentrated on one type of construction-multifamily housing construction. Significant findings included: (1) instruction site boundary noise can be significantly reduced by a number of currently available techniques; (2) the use of two quieter machines of lower capacity in lieu of one standard machine not only costs more but is of questionable machine not unity costs more but is or questionable noise control value, since the total noise exposure is sometimes greater from two machines than from one larger machine: (3) cost/benefit relationships for estimating purposes can be provided only after a significantly larger data base is obtained. (Author) (III)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A028 859

14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Design to Cost Policy Versus Implementation.

(U)

DESCRIPTIVE NOTE: Study project rept.. NOV 74 66P Shepard.James Shepard. James Earl : PROJ: DSMS-PMC-74-2

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Design to cost. \*Cost estimates.
Contract administration. Full scale systems.
Literature surveys. Trade off analyses. Military

procurement. Maintenance IDENTIFIERS: Program management. Ownership

(U) (3)

This report Chronologically reviews the literature and proponent statements regarding Design to Cost (DTC) since issuance of DDDD 5000.1 in July 1971. The report concludes that a basic conflict exists between DDDD 5000.1 and current implementation practices. Problem area resulting from this conflict which are identified and discussed are: Softness of the 'Illities' Area: Initial Cost Estimates of DTC Goals, and: The Impact Upon DTC Goals Resulting From the Contractual Gap Between Full Scale Development and Production. Concepts also discussed from a philosophical point of view are: Results of Design Simplicity: Commercial Practices, and: Design Tradeoffs versus Design Innovation. (Author) (u:

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AD-A028 859

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A028 854 5/9

NAVAL POSTGRADUATE SCHOOL MONTERLY CALIF

Efficiency Indicators for Education and Training.

DESCRIPTIVE NOTE: Waster's thesis.
JUN 76 58P LUKASGZYK. Lukasszyk.Norbert :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval training. \*Cost effectiveness. Efficiency. CoursestEducation). Indicators. Costs, Graduates, Theses, Teaching methods

The indicators Staff Student Radio, Cost The indicators Staff Student Radio, Cost per per Student per Unit Time, and Cost per graduate are discussed with emphasis on the analysis of their properties for the use as indicators for CNET to monitor efficiency of the training establishment both overail, and at different levels. The arguments show that the cost per graduate is the most appropriate indicator for a single course. Methods are denived to determine the cost per graduate in the cost per graduate is the most appropriate indicator for a single course. Methods appropriate indicator for a single course. Methods are derived to determine appropriate methods of aggregation for multiple courses. The derived indicators have the mathematical form of the Laspeyres and Paasgh indicators, used in economic theory for the Cost of living index. They are applied to 60 courses of SSC San Diego and compared to indicators determined by linear regression based on the same data set.

#### UNCLASSIFIED

DEC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 2010/

AD-A028 666 12/1 14/1

FLORIDA UNIV GAINESVILLE

A Round-Trip Location Problem on a Tree Graph.

(U)

AUG 74 Chan.Albert W. :Francis. 182 Richard L. : CONTRACT: DA-ARD-D-3:-124-73-G149 MONITOR: APC 11521.5-4

# UNCLASSIFIED REPORT

Availability: Pub. in Transportation Science vi0 p35-51 1976. SUFPLEMENTARY NOTE: Supersedes Rept. no. RR-74-7 cated SUPPLEMENTARY NUTE: Supersedes Mept. 110. MM-74-7.
Jun 74. A0-782 740.
DESCRIPTORS: \*Graphics. \*Routing. \*Cost analysis.
\*Fange(Distance). \*Facilities. Networks.
Algorithms. ?cads. Reprints
IDENTIFIERS: Round trip. Tree graphs (4) (U)

The problem considered is to locate one new facility with respect to a finite number of pairs of existing facilities on a tree graph, which typically represents a rold retwork, so as to minimize the maximum costs, where costs are linear increasing functions of the round-trip distance a webicle based at the new facility travels via a pair of existing familities. Research as a sectional locate based on a section locate based o facilities. Based on an attainable lower bound for the minimax problem, an algorithm is developed that yields all optimal solutions to the problem. (6)

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DDC REPORT 815LIDGRAPH. SEARCH CONTROL NO. ZOMOT

AD-A028 487 5/1 14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Objective Functional Approach to Structuring Contractual Performance Incentives. (9)

DESCRIPTIVE NOTE: Study project rent., NOV 75 87P Pintle,Paul Edward : PROJ: DSMC-PMC-75-2

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Contracts. \*Life cycle costs.
\*Contract administration, \*Wilitary procurement.
Mathematical models, Willtary requirements, Meapon
systems, Acquisition, Costs.
Performance(Engineering), Reliability,
Negotiations, Cost models, Motivation, Cost
analysis, Computerized simulation, Guided missile components IDENTIFIERS: \*Incentive contracts. Availability. Multiple incentive contracts

A method of structuring contractual performance incentives is developed in this report. The method derives the incentive structure directly from the modeled Life Cycle Cost (LCC). The method is illustrated for a hypothetical tactical surface-to-surface missile system and an example is provided of the methods use, at the component level for a single methods are agreeded and performance permanents and incomponential intersingle performance parameter, and incorporation into an actual procurement. The method is analysized with existing Multiple Incentive Contracts Analysis Program 'MICAP) approaches and a discussion provised, (U)

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40-4028 40E 5/1 5/9 14/2

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Management of Special Tooling and Special Test Equipment Acquired on Major Meadon System Acquisition Programs. (U)

DESCRIPTIVE NOTE: Student project rept...
NOV 74 309 Crouter.John E.
PRBJ: DSWS-PUC-74-2 Crouter.John E. :

# UNCLASSIFIED REPORT

DESCRIPTERS: \*Air Force production: \*Systems \*\*anagement. \*Courses(Education). Test equipment. \*Wanagement planning and control. \*Tools. \*Cost analysis. Data accursition, Meanon systems. Materiel. Contracts, logistics management. Reusable equipment IDENTIFIERS: Program management. Special (U) equipment (U)

This report reviews, surrarizes and makes recommendations where improvements are needed in the management of special tooling and special test equipment. The four areas discussed in this report are: (1) Acquisition of data for Special Test Equipment: (2) Improper acquisition of Goneral Purpose Plant Equipment: (3) Special Tooling identification for reuser and (4) Cost/Benefits from reuse. (4) Cost/Benefits from reuse. ( 3)

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DDC REPORT BIBLIOGRAPHY STARCH CUNTROL NO. ZOMO7 AD-A028 407 19/8 14/1 5/1 DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA Design to Cost of Advanced Lightweight Torpedo. (u) DESCRIPTIVE NOTE: Student project rept., NOV 74 35P Davis, James V.; Davis, James V. ;

UNCLAS 'FIED REPORT

PROJ: DSMS-FMC-74-2

DESCRIPTORS: \*Torpedoes, \*Design to cost, 
\*Advanced weapons, \*Cost estimates, \*Management 
planning and control, Trade off analyses, 
Lightweight, Antisubmarine warfare, Military budgets (U) IDENTIFIERS: Management tools, Guidelines, Program management (U)

The purpose of this study exercise has been aimed at determining how the Design-to-Cost principles/goals estable by DDD Directive 50.0.1 and focused by SECNAVINST 5000.1 are actually applied at the working level in a Navy Project Office. The project studied in this report. The Advanced Lightweight Torpedo (ALWT) was in its conceptual phase, just prior to DCARC 1. The Project Office was in the process of writing a definitive Design-to-Cost Plan, specifically for ALWT, but certainly applicable, if successfil, as a guide, to any future project office, while this paper deals almost entirely with the Conceptual Phase application, the ALWT DTC plan speaks to the entire life cycle of the plan speaks to the entire life cycle of the project.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07

AD-A028 375 5/1 14/2 5/3

STANFORD RESEARCH INST MENLO PARK CALIF

Industrial Management Survey of AFEES Operations, Volume 2, Findings, Conclusions, and Recommendations. (U)

DESCRIPTIVE NOTE: Final rept. Apr-Oct 75.

JAN 76 315P Andersen. Dudley G
REPT NO. SRI-MSU-4463
CONTRACT: MDA903-75-C-0230 Andersen Dudley G. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A028 DESCRIPTORS: \*Management planning and control.
\*Military budgets. \*Manpower. \*Military planning.
\*Cost effectiveness. Recruits. Efficiency. Surveys. Military operations
IDENTIFIERS: \*Military recruiting stations.
AFEES(Aried forces examining and entrance stations). Armed forces examining and entrance stations, Financial planning. Workloads (U) (U)

This report comprises two volumes. This one presents the detailed findings, conclusions, and recommendations developed as a result of this study. The objectives of this study were to evaluate the efficiency and cost-effectiveness of Armed Forces Examining and Entrance Stations (AFEES) examining and Entrance Stations (AFEES) operations and to develop recommendations for improvement. An improved manpower planning system was recommended based on formulas developed for relating staff requirements to work load. Cost models were developed for measuring cost performance. The study results in these areas provide AFEES management a coherent system for improved manpower and financial planning, reporting, and control. (4)

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STANFORD RESEARCH INST MENLO PARK CALIF

Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.

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DESCRIPTIVE NOTE: Final rept. Apr-Oct 75. JAN 76 18P Andersen. Dudley G. : REPT. NO. SRI-MSU-4163 CONTRACT: MDA903-75-C-0230

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A028 DESCRIPTORS: \*Management planning and control, \*Military budgets, \*Manpower, \*Military planning, \*Cost effectiveness, Pearuits, Efficiency, Cost effectiveness, Surveys, Military operations IDENTIFIERS: AFEES(Armed forces examining and (U) entrance stations, Armed forces examining and entrance stations, Financial planning, Manpower planning system, Workloads, Military recruiting

(U) This report comprises two volumes. This one presents highlights of the findings, conclusions, and recommendations developed as a result of this study.

The objectives of this study were to evaluate the efficiency and cost-effectiveness of Armed Forces Examining and Entrance Stations (AFEES) operations and to develop a recommendations for improvement. An improved manpower planning system was recommended based on formulas developed for relating staff requirements to work load. Cost relating staff requirements to work load. Cost models were developed for measuring cost performance. The study results in these areas provide AFEES management a coherent system for improved manpower and financial planning, reporting, and control. The AFEES system was evaluated in terms of its adequacy to meet mobilization requirements and was found to be generally adequate. The role of AFEES in generally adequate. The role of AFES in marketing enlistment was evaluated and guidelines were recommended for making a more positive contribution in this area. An examination of the geographic locations of the AFES was made from the standpoint of cost-offcctiveness and a methodology was developed for determining the optimal number and locations of the AFES.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 13/8

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DARCOM INTERN TRAINING CENTER TEXARKANA TEX

An Analysis of the Inflationary Effects on Inventory Systems.

(U)

DESCRIPTIVE NOTE: final rept..
JUN 76 39P Harris.Tyrore:
REPT. NO. DARCOM-ITC-02-08-76-113

UNCLASSIFIED REPORT

DESCRIPTORS: \*Inventory control. \*Procurement. Industrial production. \*Cost analysis. Optimization. Impact. Numerical analysis
IDENTIFIERS: \*Inflation/Economics)

This report was done as a continuation of a study done by Dr. Ram B. Misra. Texas A and M University. on the effects of inflation of University. On the effects of inflation of different inventory systems such as the lot-size and order-level-lot-size systems. Dr. Misra's study concluded that inflation had some significant effects on certain parameters in the lot-size system. In this study a sensitivity analysis is done for the lot-size, order-level-lot-size, and finite production rate systems. Three numerical examples are used in the analysis and tables and graphs are given illustrating the results of each system. Also in illustrating the results of each system. Also in this report, an analysis is done on the effectiveness of the starting solution for the various systems mentioned in arriving at the optimal solution for the lot size. (Author)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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AD-A028 243

THE MALES SPACES

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CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Competitive Prices, Dynamic Programming under

(U) Uncertainty, a Nonstationary Case.

DESCRIPTIVE NOTE: Research rept.

JUN 76 53P Schechtman, Jack ;
REPT. NO. ORC-76-19
CONTRACT: N00014-76-C-0134, NSF-SOC-75-15566

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost models. \*Economic models. \*Resources. \*Dynamic programming. Depletion.
Uncertainty. Storage, Consumption, Production
models. Growth(General). Time domain
IDENTIFIERS: Nonrenewable resources, Pricing.

(U) Competitive prices

A one-good economy is considered. The good can be used either for consumption or for production. If c units of the good are consumed and x units of the product are put into production, then the society gets u(t) (c) + p(t) (x) units of satisfaction, or utility, and the quantity of the good available in the next period is f(t) (x; w(t)) where w(t) are independent random variables. Using the concept of competitive prices and policies qualitative properties of optimal policies for finite and infinite time horizon problem are obtained. These results have applications problem of nonrenewable resources, storage problem and economic growth models under uncertainty. (U) (Author)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

5/4 AD-A028 088 5/3

RAND CORP SANTA MONICA CALIF

The Opportunity Cost of the Nonmonetary Advantages of the Soviet Military R and D

Ofer.Gur :

AUG 75 62P OF REPT. NO. R-1741-DDRE CONTRACT: DAHC15-72-C-0083

UNCLASSIFIED REPORT

DESCRIPTORS: \*Political science. Technology. \*Cost analysis. USSR. National security.
Research management. Military research. Military budgets. Civilian personnel. Resource management. Comparison. United States Government. Economic

(U) warfare Analyzes the major norbudgetary advantages enjoyed by the military research and development sector in the Soviet economic system. This analysis also investigates to what extent and in what form such advantages are potentially transferable from the

advantages are potentially transferable from the military to the civilian sector, thereby constituting a real economic burden on the Soviet economy. The military R and D sector benefits from a high-powered priority system that overrides the planning network. It receives ample resources and facilities: it has first claim on supplies. Specifically produced items and scarce resources. Finally, there are no spillover effects to the civilian economy. This disadvantage stems from secrecy, the need to limit new materials and components and lack of funds to diffuse the achievements of military R and D. This report concludes that the opportunity costs of Soviet military research and development are greater than reflected in the budget, and the investment of so much in military R and D seriously limits P and D in other areas. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A028 019 13/13 5/1

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS

A Study of Variability of Construction Cost Estimates. (U)

DESCRIPTIVE NOTE: final note, JUL 76 21P Weed, Harrison D.; REPT. NO. DRSAR/SA/N-43

UNCLASSIFIED REPORT

DESCRIPTORS: \*Construction, \*Cost estimates.
Contracts, Standard deviation, Mean, Analysis of

IDENTIFIERS: \*Construction costs, Bids

A study was made of the variability of construction cost estimates based on bids of planned construction projects during the 1971 time frame. Data was obtained from the Office of the Chief Engineer obtained from the Office of the Chief Engineer on bids received on 122 planned construction projects during CY 1971 out of a total of 795 such projects. The 122 projects represented planned construction in eight engineering categories of construction cost which had mean bids ranging from 18,000 to 28,000,000 dollars. The mean bid, standard deviation, coefficient of variation and number of bids were destined for each project analyzed in the study. The coefficient of variation (standard deviation/mean) was studied as related to mean bid size, number of bidders, engineering district, and engineering category. engineering category. (11) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A027 882 15/5 12/2 5/1

GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN

Minimizing the Cost of Completing a Project Subject to a Boung on the Expected Delay Time.

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MAY 76 19P Fa REPT. NO. Serial-T-336 CONTRACT: NOC014-75-C-0729 falk.James E. : PROJ: NR-347-020

UNCLASSIFIED REPORT

DESCRIPTORS: \*Costs. \*Delay. \*Management engineering. \*Logistics. \*Operations research. Optimization. Random variables. Linear systems. Repair. Scheduling
IDENTIFIERS: PERT. Nonconvex optimization

Given a project with well-defined events and Given a project with well-defined events and activities, suppose the starting times of the activities are subject to random delays. Suppose it is possible to reduce the magnitude of these delays at additional cost. In this paper, we derive an expression for the total expected delay time of the project, and show that it can be expressed as the maximum of a number of linear expressions. To achieve at most a given expected delay time at minimum cost. We are led to examine an optimization problem with an excessively large number of linear constraints. A simple cutting plane algorithm is applied to the problem, yielding a practica; method of solution. A non-convex example with five activities is used to illustrate the method. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-A027 665

14/1 17/2

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint
Tactical Communications. Volume III. Life
Cycle costing. Appendix G. Cost
Uncertainty Analysis Model. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 76 46P Boyd, Eugent T.;
REPT. NO. 110-0RT-032-76-V3-AP-G

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3A, AD-A021 93B.
DESCRIPTORS: \*Cost effectiveness, \*Life cycle costs, \*Tactical communications, Uncertainty, Fortran, Computer programming, Joint military activities (U)

This appendix presents some of the possible approaches for treating cost uncertainty and to present the approach and model which the TRI-TAC Office uses to augment the methodology for estimating life cycle costs. A Cost Uncertainty Model Program User's Guide and a Cost Uncertainty Model Program are also included.

(Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A027 402 19/3 19/6

ARMY ARMAWENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs.

DESCRIPTIVE NOTE: Final rept..

APR 76 88P Banash.Robert C.:BeesonJames B.:
REPT. NO. DRSAR/SA/R+08

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Tanks(Comba..ehicles). \*Weapon
systems. \*Cost analysis. Scheduling. Cost
overruns. Production control. Management planning
and control. Risk analysis. Retrofitting. Foreign
tecnnology
IDENTIFIERS: M-1 tanks. XM-1 tanks. \*Tank
guns
(U)

A comparison was made of development cost/schedule burdens incurred by adopting either the US 105mm. the UK 110mm or the FRG 120mm armament systems into the US XM-1 Tank Program. These comparisons were made in terms of schedule delays and additional cost to the XM-1 Program. Programs were developed to produce US guns/ammunition from FRG/UK tecnnical data packages. Modifications to the XM-1 Program were structured to account for vehicle redesign phase to accept the FRG/UK systems. Cost and schedule estimates for each program, trat is. US XM-1 with the US 105mm, the UK 110mm and the FRG 120mm armament systems. are presented and compared with the planned XM-1 105mm Program.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A027 365 17/2 14/1 9/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Preliminary Cost Analysis of the Communications Processor for the F-15 Joint (U) Tactical Information Distribution System.

DESCRIPTIVE NOTE: Master's thesis. SEP 76 87P Gaumer.william Francis: SEP 76 87P REPT. NO. GSM/SM/765-8

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Command and control systems, \*Communication equipment, \*Cost analysis, \*Data processing, \*Tactical data systems, Cost estimates, Minicomputers, Logistics support, Computer program documentation, Jet fighters, in Force budgets. Tactical communications, Theses IDENTIFIERS: \*Communication processors, Computer software, F-15 aircraft

(u)

Budget restraints over the past several years have caused the Department of Defense to take a closer look at the new systems that it requires. Emphasis has been placed on not just the initial cost but the entire life cycle of the system. The Air Force has initiated several studies and projects aimed at reducing the total cost of new aircraft avionic systems. This thesis presents a preliminary analysis of the Costs involved in acquiring and supporting a communications processor for the F-15 Joint Tactical Information Distribution Joint Tactical Information Distribution
System terminal. The characteristics or a digital
computer are examined from a historical management
perspective as well as the enginering dasign
considerations. Two designs are presented: one
is based on the current F-15 central computer while
the other is based on current microcomputer
technology. The software development and hardware procurement costs are estimated for each design, and the cost impact of the designs on several logistic support costs is also discussed. An analysis of these costs indicates that the microcomputer design would be the least costly of the two designs. uld be the least costly or the

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-4027 288 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Life Cycle Costing and the Effect of Ownership Costs.

(U)

DESCRIPTIVE NOTE: Study project rept.. NOV 75 36P PROJ: DSYS-PMC-75-2 Schumacher.William J. :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Cost estimates. Weapon systems. Acquisition. Operation. Logistics support. Manpower. Resource management. Military procurement. Maintenance management. Management information systems, Costs. Data bases. Standardization IDENTIFIERS: \*Ownership costs

The purpose of this study was to examine life cycle costing (LCC) and to determine the effect of ownership (i.e., operating and support) costs on

ownership (i.e., operating and support) costs on the life cycle cost of a weapon system, Nost of the discussion deals with the application of LCC to major system acquisition. This report focuses on the collecting and reporting of ownership costs as well as addressing problems encountered by DDD in Collecting ownership cost data and in applying LCC. Despite the significant cost savings demonstrated Despite the significant cost savings demonstrated by LCC procurements, its use has been limited because of the uncertainity of the legal validity of LCC: (insufficient emphasis by DOD in training personnel; lack of a reporting system within DOD; and the increased work required in some LCC contracts. Utilizing LCC for estimating the total cost of a weapon system has had even less application because of the inconsistency of lie cycle cost estimates and a lack of cost data by weapon system. While progress has been made in improving cost estimates, collection of ownership costs by weapon system has moved slowly because of the multitude of system has moved slowly because of the multitude of data systems required and the lack of standard definitions of cost elements.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-AD26 964 9/2 ELECTRONIC SYSTEMS DIV HANSOOM AFB MASS Summary Notes of a Government/Industry Software Sizing and Costing Workshop, (U) OCT 74 61P REPT. NO. ESD-TR-76-166

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programming. \*Costs. \*Meetings, Government procurement, Industries, Specifications (U) IDENTIFIERS: \*Computer software (u) The Government/Industry Software Sizing and

The Government/Industry Software Sizing and Costing Workshop was held on 1 and 2 October 1974 at the Electronic Systems Division (AFSC). Hansom Air Force Base.

Massachusetts. The overall purpose of the workshop was to improve communications between industry and Government on the problems of forecasting software development costs. More specifically, the workshop focused attention on two key questions: (1) What are the attributes of a good software requirements specification: (2) What are the prime factors affecting/driving software C its. These summary notes present the major points discussed and recommendations made during the splinter group discussions.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A026 944 9/5

MARTIN VARIETTA AEROSPACE CRLANDO FLA

Printed wiring Board Production Assembly Cost Guidelines Manual.

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DESCRIPTIVE NOTE: Final production manual rept. 26 Mar 75-25 Mar 76.

MAR 76 234P Csborne.Sol C wendell R. :Taitaglia.Frederick E. : REPT. NO. CR-13826-2 CONTRACT: 94AB07-75-C-0029 PROJ: DA-2759673 Osborne.Sol C. : Hutchinson.

## UNCLASSIFIED REPORT

uESCRIPTORS: \*Printed circuit beards. Cost analysis. Cost models. Production engineering. Automation. State of the art. Manual operation. Costs (U)

Cost forms, cost/manhour data tables and equipment Cost forms. Cost/manhour data tables and equipment payoff preakeven cost models provided for the user of this manual a direct approach of selecting the lowest cost PXE component assembly method. The comparisons required for solving assembly problems are given on state-of-the-mant manual and automatic assembly methods. Formulated assembly and cost guidelines are provided for processes and equipment described for variety of manual and automatic assembly methods. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Useful Life Cycle Cost Estimates for Defense Systems - An Evaluation.

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DESCRIPTIVE NOTE: Study project rept.
NOV 75 45P Roterson.Carl Roterson, Carlton Franklin: PROJ: DSMS-PMC-75-2

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates, \*Life cycle costs, Decision making, Military procurement, Weapon systems, Department of Defense, Defense planning. Integrated systems, Standardization, Numerical methods and procedures

This study analyzes and evaluates the concept and framework of Life Cycle Cost (LCC) estimate policy, guidance, and methodology efforts within the context of DoD major weapon system acquisition strategy. The analysis considered the general types of LCC estimates, the value of estimates in the of LCC estimates, the value of estimates in the decision making process, and the interaction of the DSD Assistant Secretaries and policy councils in LCC policy formulation and implementation. Current DOD publications, staff memoranda, and informal interviews with OSD officials were used as the basis for the analysis and evaluation. The study concludes that the ambiguity of current DoD directives regarding LCC estimate policy, guidance, and methodology responsibility makes it extremely difficult to understinad where the DoD stands today with LCC. Although within OSD an overall today with LCC. Although within OSD an overall LCC plan may exist in conjunction with well understood in-house resonsibilities, in the opinion of the author it has not been clearly nor consistently promulgated within the whole of DoD. The emergence of a single, comprehensive LCC estimating concept which embodies all phases of weapon system acquisition and ownership does not appear to be forthcoming. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Tre U.S. Navy Foreign Military Sales Program.

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DESCRIPTIVE NOTE: Study project rept..
NOV 75 41P Vincent.william L.: PRCJ: DSMS-PMC-75-2

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval procurement. \*Cost estimates. \*Management. Project personnel. Decision making. Military organizations. Finance. Management information systems. Logistics management. International, Naval vessels, Weapon systems. Acquisition. Overseas. Military forces(Foreign), Navy, Military assistance.

Foreign aid
IDENTIFIERS: \*Foreign military sales. Naval

material cormand. Program management. International logistics

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This study evaluates the organization and This study evaluates the organization and procedures presently established to deal with Navy Foreign Military Sales (FMS). It focuses on the program office responsible for implementation of the case and ultimate delivery of the system which has been purchased. The paper. first. describes the Navy's basic organization and how it relates to Navy's basic organization and now it relates to DOD and State Department Security Assistance Offices. The following section tracks a typical FMS case from receipt of the customers purchase request, through agreement on sale, to final execution of the case. The paper concludes with a discussion of specific issues relating to financial management problems which Currently are being evaluated in the Navy. These issues deal with the requirement to price out a proposed sale and how funds are managed after case implementation. Poor price estimates affect relations with the foreign customers and Cause Considerable administrative difficulties which result in lost time and possibly, financial loss. Recommendations concentrate on the means by which the accuracy and completeness of price estimates can best be achieved. The funds management problem is primurily associated with the sale of ships. (U)

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DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Economic Escalation and the Military Program Manager.

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TOTAL TENNESSEE THE TANK

DESCRIPTIVE NOTE: Study project rept. NOV 75 44P PROJ: DSMS-PMC-75-2 Buckelew .W. F. ;

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Inflation(Economics), \*Military procurement, \*Cost estimates, Weapon systems, Resource management, Project personnel.
Allocations, Department of Defense, Mathematical prediction, Errors, Rates, Indexes(Ratios), Forecasting, Management planning and control IDENTIFIERS: Escalation, Program management

This study investigates the severe impacts which inflation has had on the economic resources avai:able to the Department of Defense and the resulting pressures on the program manager to improve the cost estimates for his program. A large portion of the cost estimating errors for weapon systems were found to be due to errors in the estimation of inflation rates. Recent policies attempt to alleviate this situation by: (1) Emphasizing the importance of the program manager's 'best estimate' for near term predictions: and (2) Using GOD-wide escalation rates to be applied to estimates for outyears. Changes have also been made in reporting formats to nighlight the extent of escalation included in cost estimates and the rationale used in arriving at projected inflation rates. The report discusses methods which the program manager has available to predict inflation and some of the terms, concepts and mathematics which he must use. Inflation is likely to continue at high levels and, therefore, the program manager must remain familiar with inflation aspects of his program even though there is little or no specific guidance available to him for accurately predicting inflation rates for his program.

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DDC REPORT FIBLIOGRAPHY SEARCH CONTROL NO. 20#07

AD-A026 386 5/9 14/1 5/10

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Economic Analysis of Lay-Offs.

DESCRIPTIVE MOTE: Student project rept.. MAY 76 419 Roland.uay R. : PROJ: DSMS-PVC-76-1

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Unemployment. \*Cost effectiveness. \*Morale. \*Economic analysis. Employee relations. Delay. Scheduling. Procurement. Negotiations IDENTIFIERS: \*Lay off analysis. \*Idle employees. Scheduled delays. Reductions of effort.

Contingency planning

This study is an investigation into the economics of government contractor lay-offs due to government directed schedule delays or permanent reductions of effort. The topic becomes increasingly important in the dynamic political and business environment in which weapon systems are acquired today. By using the analysis process developed in this study, the program office should be able to plan and execute level of effort delays and reductions in the manner most cost effective to the government. The results show that for both short-term and permanent shot that for both short-term and permanent reductions of personnel, the optimum economic solution is neither to lay off all idle employees or to keep all on the payroll. In most cases there are particular numbers of layoffs that minimize either the government or the compined government-contractor expenses. In general, the best solution will be to minimize the combined expenses and negotiate the cost with the contractor to reduce the government expense.

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DDC REPORT BIBLIOGRAF IY SEARCH CONTROL NO. ZOMO7

AD-A026 299 15/5 14/1

RAND CORP SANTA MONICA CALIF

Costs of the Next Due Base-Level Inspection during a Depot Visit.

MAR 76 €7P

Browning. Thomas H. : Cohen. I. K.; Lu.John Y.; REPT. NO. R-1865-PR CONTRACT: F44620-73-C-0011

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Logistics support, \*Cost estimates. Depots. Jet fighters, Maintenance. Scheduling. Inspection, Preventive maintenance IDENTIFIERS: Shop maintenance (U) (U)

An outline and illustration of a method for estimating the incremental man-hour costs of doing a base-level inspection during a depot visit as a means to reduce total system costs (base and depot). It is expected that the depot can perform the base-level inspection appe econolically because the depot performs most of the base-level inspection in conjunction with any Programmed Depot Maintenance (PDM) and Vodifications (MOD). and only a small incremental cost would be required to do the few additional tasks needed. This report discusses a simple insight based on depot maintenance procedures which reduces the forecast of the unpredictable workload to a minor problum; the predictable work can be obtained from DART (Daily Automatic Rescheduling Technique). Given an adequate sample of histories to acquire the predictable and unpredicted estimates, the results from the method described are judged to be adequate for decisionmaking. This method, illustrated in this report for the F-4 case, is belived to be applicable to other weapon systems undergoing PDM/MODs at other Air Logistics Centers. (u) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A026 206 17/2

NAVAL LLECTRONICS LAB CENTER SAN DIEGO CALIF

A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Mocels. (U)

DESCRIPTIVE NOTE: Test and evaluation rept. Jul 75-Mar 76. MAR 76 Greenwell.R. A. :

MAR 76 49P REPT. NO. NELC-TR-1982 PROJ: W41X1. WELC-F228 TASK: W41X1001

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Intercomm mication systems. \*Life cycle costs. \*Cost analysis. \*Fiber optics transmission lines. Ayıonıcs. Attack aircraft.

Effectiveness. Performance. Coaxial cables. Optimization. Models IDENTIFIERS: A-7 aircraft (u)

Economic analyses are being conducted to determine the measure of effectiveness of fiber-optic and Coaxial-capie systems for combat aircraft. Participating are the Naval Electronics Laboratory Center. Naval Postgraduate School, and the McDonnell Aircraft Company. The naval activities have developed a Bottoms Up model and McDonnell Aircraft Company has developed a Top Down model. These two models will be utilized to compare and analyze the optimum system in terms of performance and cost.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 15/5

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AIR FORCE MATERIALS LAB WRIGHT-PATTERSON AFB OHIO

Environmental Effects on Maintenance Costs

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REPT. NO. AFML-TR-76-31
PROJ: AF-7351
TASK: 735106
MONITOR: C\*\*\*

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## UNCLASSIFIED REPORT

F-4E aircraft, C-135 aircraft, KC-135 aircra.

DESCRIPTORS: \*Aircraft equipment. \*Weathering. \*Aircraft maintenance. \*Cost analysis. Life cycle costs. Corrosion, Maintenance management.
Predictions, Regression and dis. Engine Stanters. Doppler radar
IDENTIFIERS: \*Environmental effects, F-4 aircraft.

A series of mathematical models of the influence of environmental affects on maintenance costs was constructed using linear regression analysis. The equipment whose behavior were modeled were the KC-135 Doppler Radar and the F-4E engine 135 Doppler Radar and the F-4E engine starter. Models explaining more than 20% of the variation in maintenance cost as a .esuit of weather factors were developed, where only the two most current month's weather was considered. Recommendations for further recearch using more sophisticated model revelopment techniques are presented. A limited economic analysis of some life cycle cost implications of failure countermeasures for increased invironmental resistance is given.

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A025 276

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RAND CORP SANTA MONICA CALIF

A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III).

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MAR 76 94P 80 REPT. NO. R-1854-PR CONTRACT: F44620-73-C-0011 Boren.H. E. . Jr:

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes rept. no. R-761-PR-abridged, AU-A012 091, See also report dated Feb 76, AD-A022 086 and report dated Mar 74, AD-780 636.

DESCRIPTORS: \*Military aircraft. \*Air Force procurement. \*Cost Pytimates. Computer programs. FORTRAN. Airframes. Aircraft engines. Aironics. Hanufacturing. Engineering, Turbofan engines. Turbojet engines. Cost models. Cost analysis. Logistics management IDENTIFIERS: FORTRAN 4 programming language.

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Sensitivity analysis. DAPCA3 computer program

(U)

The report describes and lists an updated computer model (DAPCA-III) that computes from parametric relationships the development and procurement costs of two major flyaway subsystems of an aircraft— airframes and engines. Avionics costs are included but are treated as throughouts. Cumulative average, unit, and total flyaway costs are obtained for up to ten specified aircraft productic: quantities. Flight and avionics procurements are allowed. Although costs of spare engines are not considered to be flyasay costs, they are calculated in the model as additional costs not included in the totals. Unless otherwise specified, all costs are calculated in 1975 dollars.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A025 133

13/8 13/9

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

A Regression Model Predicting Part Costs Machined by Numerically Controlled and Conventional Machinery.

DESCRIPTIVE NOTE: Final rept.,
MAR 76 64P Keister, Arlie D.; MAR 76 64P Keister, AI REPT. NO. DARCOM-ITC-02-08-76-216

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Machine tools, \*Automation, \*Cost analysis, Machine shop practice, Regression analysis, Product on control, Mathematical models. Mathematical prediction IDENTIFIERS: \*Numerical control

A way of determining whether to machine a part by numerical control or conventional methods is needed. This research was made to develop two cost models, one for numerical controlled machining methods and one for conventional machining methods. one for conventional machining methods. A comparison of the costs given by the models will determine which machining method is to be used. This report found that although there is a correlation between these costs and the variables used, the models are not accurate for making any decisions regarding which machining method to use.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A025 021 5/1

TEXAS A AND M UNIV COLLEGE STATION INST OF STATISTICS

Incomponating Project Cost Considerations into Stochastic PERT (Project Evaluation and Review Technique).

DESCRIPTIVE ACTE: Themis commization research program.
NOV 75 65P Birmer.Paul P. :Sielken.
Robert L. Jun:
REPT. NO. THEMISTR-52
CONTRACT: %20016-68-A-0:40 DESCRIPTIVE NOTE: PRDJ: NR-047-700

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*PERT. \*Costs. \*Stochastic processes. Linear programming. Scheduling. Computer programs. Network floas, Algorithms

IDENTIFIERS: \*Separable programming, Network analysis(Management). Themis project

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This report extends classical PERT to incorporate both random activity durations and project cost Considerations. Project Costs include both planned activity costs and penalties for activities exceeding their allowed durations. Several problem their allowed durations. Several proplem formulations are mentioned, and the determination of a minimum cost schedule satisfying a predetermined project deadline is discussed in detail. This latter problem is formulated as a separable programming problem which can be solved by the Computer algorithm documented in the appendices. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A025 019 19/1 15/5 13/8

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Applications of Manufacturing Cost Analysis and Prediction System to the Production of the M13 Tracer. (U)

DESCRIPTIVE NOTE: Final rept..

MAY 76 93P King.Joseph Gerard:
REPT. NO. DARCOM-ITC-02-08-76 222

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Tracer ampunition, \*Manufacturing.
\*Cost analysis, Production control, Production rate, Production models, Network analysis(Management), Manpower utilization (U)
IDENTIFIERS: M-13 ampunition (U)

Management always has a need for tools which help in the analysis of production process. The Army spends millions of dollars in the production of armaments alone. This research project investigated usefulness of MCAP to a production process at Lone Star Army Ammunition Plant. This report found MCAP to be a promising tool for government route.

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A024 816 5/3 5/1

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Analysis of the Effectiveness of the Preproduction Evaluation Contract in Preventing Cost Overcons.

DESCRIPTIVE NOTE: Final rept..

MAY 76 47P Cone.George N.
REPT. NO. DARCSY-ITC-02-68-76-220

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost Overnons. \*Contracts. High costs. Statistical analysis. Test methods. Effectiveness. Companison. Producement. Methodology. Probability. Cost analysis IDENTIFIERS: \*Preproduc ion evaluation contracts

This research report examines the Cost overnum figures for both PPE and conventional contracts. It compares the cost of the two types of contracts and statistical methods are employed to measure the Cost overnum differences between them. The shortcomings of conventional contracting methods are reviewed and the advantages and disadvantages of the PPE concept are discussed. The data revealed significant differences between the two types of contracts examined and recommendations are made as to when the more complex PPE concept is justified. (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A024 743 13/8 14/1

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts.

DESCRIPTIVE NOTE: Final rept..

APR 76 48P Carter.doe M.:
REPT. NO. DARCOM-ITC-02-98-76-216

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Spare parts. \*Manufacturing. \*Cost effectiveness. \*Numerical methods and procedures. Control. Production. Quick reaction. Inventory. Lead time. Industrial engineering. Inventory control IDENTIFIERS: \*Numerical control

This investigation is an attempt to determine the amount of inventory cost reduction that can be obtained by utilizing Numerical Control to produce spane parts. It is also an attempt to determine the parts which will produce the most significant savings. Assuming all parameters of the inventory system to be constant, except leadtime, the sensitivity of inventory cost to leadtime is derived. The elements of leadtime and the capability of Numerical Control to reduce each is presented. Significant conclusions drawn are that any reduction in leadtime will reduce inventory cost, but greater savings stem from those parts having higher demand variances. However, the amount of inventory cost reduction can be greatly dampened by a large administrative leadtime. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20907

A0-A024 556 19/1 5/3 12/1

ARMY ARMINENT COMMAND ROCK ISLAND IL: COST ANALYSIS DIV

Modified Cost Estimating Wodel for 20mm -40mm Automatic Cannon Ammunition Initial Production Facilities.

(111

DESCRIPTIVE NUTE: Technical rept..

APR 76 46P Goodall, James F. :
REPT. NO. SASAR-CPE-76-3

### UNCLASSIFIED PEPORT

DESCRIPTORS: \*Ammunition. \*Cost estimates.
\*Mathematica' models. Costs. Cost analysis.
Projectiles. Small arms ammunition. Antillery
ammunition. Cantridge cases. Aluminum. Steel.
Automatic meapons. High explosive ammunition.
Incendiary ammunition. Armor plending ammunition.
Production engineering. Industrial equipment.
Tools. Test equipment

(U)

A model to provide cost estimates of initial production facilities (IPF) for a 20cm through 40cm Steel-Case or aluminumcase family of conventional automatic cannon amountion is presented in this report. The model is intended to facilitate the preparation of independent estimates in support of decision making early in the acquisition phas. It represents a modified version of previous models over the same size range developed by HQ. ARMODY.

Cost Analysis Division, in that different costs among alternative rounds of different calibers and/or component dimensions are generated. The differentiating or adjusting process is based on the premise that production equipment creacities are partially or wholly dependent on it isonitude of Certain component dimensions that are known or can be assumed in early estimates. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A024 389

ARMY WAR COLL CARLISLE BAHRACKS PA

The Training Division: A Good Investment.

(L,

DESCRIPTIVE NOTE: Student essay.

JAN 76 33P Rappl.Norbert J.;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Military reserves, \*Co.t effectiveness, \*Military training, Surveys, National defense, Economics, Combat readiness, Public opinion, Investments, Organizations (U)

The Reserve Components have been the subject of much criticism and indeed, there is a gamuine question regarding their ability to really perform their mission. However, a study of the history of reserve forces, examination of the laws and regulations governing their organization and training, and an evaluation of past mobilizations, indicates that reserve forces have been vita. to the defense of America in the past, Proper utilization will make them a useful and potent force to achieve national goals in the future. This paper discusses one type of reserve unit, the USAR Training Division, its mission, capabilities and potential, together with its demonstrated ability, to illustrate that the training division at least among the reserve components, is a good investment for the American taxpayer. The Reserve Components have been the subject of American taxpayer.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? J/1

AD-A024 251

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INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA COST ANALYSIS

Air Force Central Supply and Maintenance Cost Data Base Fys 1965-1974.

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DESCRIPTIVE NOTE: Final paper.

MAR 76 81P McDonalo.Francis L.:
Palatt.Paul E.:
REPT. NO. P-1195
MONITOR: IDA/HQ 76-18368

UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force facilities. \*Depots. Cost analysis. \*Logistics management. Maintenance. Weapon systems. Airframes. Engines. Accounting. Air Force equipment. Military Supplies

The paper presents a historical data base suitable for analysis, covering eleven years of Air Force Central and Maintenance (Program VIII) Operations and Maintenance appropriations. Ten years of depot maintenance expenses for major Air Force weapon systems are presented by subsystem (airfname, engine, peculiar accessories, and command accessories) and by type of facility. The data have been normalized to FY 1974 dollars and to the FY 1975 Air Force management. organizational and accounting structures. Adjustments have also been made for expenses incurred to repair weapon systems that required mainteflance because of Vietnam crash and oattle

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A024 140

GENERAL AMERICAN TRANSPORTATION CORP NILES ILL GENERAL AMERICAN RESEARCH DIV

General Guidance for Cost Analysis of Commercial and Industrial-Type Real Property Maintenance Activities. (U)

DESCRIPTIVE NOTE: Final rept..
APR 76 540P Kirby, APR 76 540° Kirby Jeffrey G. ;Kinkley, Michael L. ;Madanoglu,Tuvan ;Henzi,Alan N. ;

CONTRACT: DACABB-74-C-0050 PROJ: RDT/E-4-1-162121-A-891 TASK: 4-A-162121-A-89106 MONITOR: CERL TR-C-68

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Military facilities, \*Army equipment. \*Resource management, \*Cost analysis, Management planning and control, Specifications, Maintenance, Repair, Industrial equipment, Commercial equippent IDENTIFIERS: +Real proper .y

This report presents guidance for cost analysis of selected Commercial and industrial-type real property operation, maintenance, and repair activities. It is intended for use by Facilities Engineers or their staff. A total of 34 activities, encompassed by 17 functional areas, and ranging from utilities and paved surfaces to pest control services and railroad facilities are included in the scope of this report. The guidance—in the form of reference specifications—includes expanded definitions of the specifications—includes expanded definitions of the functional areas, definitions of the functional activities, definitions of subfunctions within the activities, discussions of the methods of estimating activities, discussions of the methods of estimating costs for each subfunction, and tables and worksheets for the Cost elements pertaining to each subfunction. Definitions include a statement of scope, and tools, equipment, supplies, materials, and skills required for the performance of the activities and subfunctions. It is expected that this guidance will be used in conjunction with AR 235-5 (Management of Resources Commercial and Industrial Type functions) in preparing DA Form 3207-R. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEAFCH CONTROL NO. ZOMOT

AD-A024 014 16/4 9/2

ARMY WAR COLL CARLISLE BARRACKS PA

Opportunities for Cost Reductions in the esting of New Missile Systems.

DESCRIPTIVE NOTE: E: Student essay 35P Feist.R NOV 75 Feist.Robert J. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Guided missiles. \*Computerized simulation. -Cost effectiveness. Test methods.
Mathematical models. Operational effectiveness.
Weapon system effectiveness. Costs. Reduction
IDENTIFIERS: \*Cost reduction. Hardware in the

(U)

The basic problem addressed is to identify new testing methods for the Army's new missile systems which can, in the short term, produce at less cost the increased quantities of improved quality test data required by material acquisition decision makers. Live trial firings, mathematical modeling and hardware-in-the-loop simulations were examined. Data was gathered from technical reports. Army regulations, staff studies, and personal interviews. The traditional testing method, live trial testing was found to be increasingly costly as the level of system and threat complexity grew. Mathematical modeling provided significant advantages, but the modeling provided significant advantages, but the number of live firings required to develop and validate the model approximated the number required by a typical missile system test program in which all the test data was obtained from live firing. The hardware-in-the-loop offered significant advantages to both the developer and the tester. It was found to offer the best apportunities for cost reduction while providing the increased quantities of high quality data required. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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AD-A023 881 6/5 5/11

ARMY WAR COLL CARLISLE BARRACKS PA

A National Health Program.

DESCRIPTIVE NOTE: Student essay. 40P Bryant.Albert ;

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Medical services, \*Insurance, Public health, Legislation, Hospitals, Outpatient clinics, Social welfare. Costs
IDENTIFIERS: \*National Health Insurance, Medicare, \*Health insurance, \*Health care services, \*Health care Costs (11) (U)

This paper addresses the options and impact of a National Health Program. It suggests what remedies would best solve the steadily accelerating remedies would best solve the steadily accelerating cost of medical care. It points out the weakness of the existing programs. Coverage is devoted to ongoing programs, resources, and actions by Congress, OMB, HEW, VA and DOD. It offers specific directions for the future. The Writer concludes that a National Health Insurance program is needed. Constructive programs Program is needed. Constructive recommendations for the implementation of a National Health (U) Insurance program are presented. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

14/1 9/2 5/10 AD-A023 874

WHARTON SCHOOL OF FINANCE AND COMMERCE PHILADELPHIA PA DEPT OF DECISION SCIENCES (MANAGEMENT)

Data Storage Decisions for Large Data

DESCRIPTIVE NOTE: Doctor's thesis.
FEB 76 279P · weldon.Jay
REPT. NO. 76-02-04
CONTRACT: NO0014-67-A-0216-0007 Weldon.Jay-Louise: PROJ: NR-049-272

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Information systems. \*Decision making. \*Data bases. \*Cost analysis. \*Data storage systems. \*Information sciences. Computers. Data systems. \*Information Sciences. Computers. Data processing. Configurations. Methodology. Systems analysis. Housing(Dwellings). Population. Data management. Data compression. Performance(Engineering). Theses IDENTIFIERS: \*Data base configuration model. DBCM(Data configuration model). Design. Measures of effectiveness. Decision model (0)

(U)

This dissertation presents a systematic methodology for making configuration decisions for large data bases. For each phase of the methodology, informal and operational decision aids are provided. The primary design tool described is an interactive Data Base Configuration Model (DBCM). This model was developed to aid the data base designer in evaluating and comparing the cost and performance of alternative configurations. The methodology is illustrated by its applications to the configuration of a large data base: the 1970 Census of Population and Housing. (U)

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DDC PEPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A023 836

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AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM OFFICE

On High Support Costs and Poor Reliabilities in Air Force Aircraft (U) Equipments.

DESCRIPTIVE NOTE: Final rept.,
MAR 76 18P Genet,Russell M.; Hall,S.
Woodrow , Jr;
REPT. NO. ASD/RAXA-76-2

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Military aircraft, \*Aircraft equipment, \*Cost analysis, \*Logistics management, Logistics support, Costs, Reliability, Air Force procurement, Air Force budgets, Air Force planning (U)

Common statements and opinions about the 'nigh support costs and poor reliabilities' of items of aircraft equipment are discussed. A distinction is made between statements that are objectively confirmable, at least in theory, and those that must, by their nature, remain forever subjective. For those statements where objective confirmation is possible, the outline of an analytic approach of the possible of the confirmation towards reaching such objectivity is offered.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTPOL NO. ZOMOT

AD-A023 835 1/3 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM QFFICE

Reducing Support Costs and Improving Reliabilities/Availabilities of Air Force Aircraft Equipment.

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DESCRIPTIVE NOTE: Final rept..

APR 76 27P Genet.Russell M.:Hall.S.
Woodrow . Jr.:Spray.Gordon W.:
REPT. NO. ASD/RAXA-76-4

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Wilitary aircraft. \*Aircraft equipment. \*Cost analysis. \*Logistics management. Logistics support. Costs. Reliability. Air Force producement. Air Force budgets. Air Force planning

Common statements and opinions about the 'high support costs and poor reliablilities' of items of support costs and poor reliablitities' of items of equipment are discussed. A distinction is made between statements that are objectively confirmable at least in theory, and those that must, by their nature, remain forever subjective. For those statements where objective confirmation is possible, an analytic approach aimed towards reaching such objective type out long togetal amount for Objectivity is outlined. Logical remedies for severe cases are succested. A program for analysis and subsequent actions is outlined. Specific (11) Drooram tasks are deliniated.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7 AD-A023 834 1/3 15/5 AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM OFFICE

DESCRIPTIVE NOTE: Final rept..
MAR 75 20P Genet,Russell M.;
REPT. NO. ASD/RAXA-76-3

On the Reduction of Operating and Support Costs of Air Force Aircraft.

UNCLASS'FIED REPORT

DESCRIPTORS: \*Military surcraft, \*Air Force procurement, \*Costs, Air Force planning, Logistics support, Air Force budgets, Logistics management
IDENTIFIERS: Operating Costs, Life cycle (U)

costs (8) Conceptual approaches and difficulties involved in reducing the operating and support costs of Air Force aircraft are discussed.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A023 830 14/3

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM OFFICE

LCC Analysis of Flight Recorder for F-4 Wild Weasel Aircraft.

JESCRIPTIVE NOTE: Final rept..

APR 76 7P Weitzler.Thomas D.:
REPT. NO. ASD/RAXA-76-6

UNCLASSIFIED REPORT

DESCRIPTORS: \*flight recorders. \*Cost analysis.

Jet fighters. Life cycle costs. Selection
IDENTIFIERS: F-4 aircraft

This report briefly summarizes a basic life cycle cost effort on two flight recorders. It discusses the background, approach, results, and conclusions of the study.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A023 750 13/13 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN

Industrialized Building Construction Time/ Cost Model - First Quarter FY 76 Results.

DESCRIPTIVE NOTE: Interim rept.,

APR 76 31P POR POR POR POR POR POR POR POR POR PARAMETER PROJ. DA-4-A-762719-ATA-101

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Modular construction, \*Cost analysis. Prefabrication, Models, Construction, Time, Delivery, Questionnaires, Statistical analysis, Surveys, Housing projects, Prefabricated buildings

IDENTIFIERS: Mobile homes, \*Industrialized (U) building

The time/cost project was developed as a means of comparing the cost and delivery time of industrialized building with that of conventional building to form a basis for selecting the best type of facility construction. A new cost-estimating procedure was needed to provide cost estimates for industrialized building without reference to drawings or specifications. This report describes the results of a July 1975 survey administered to a sample of industrialized builders of housing products. The survey was designed to find those variables which could predict differences in the cost and delivery time of housing products. The variables which could predict differences in the cost and delivery time of housing products. The statistical summaries of the three major types of housing producers (panelized, modular, mobile) are presented, along with tests for the significance of differences in physical plant, production time. of differences in physical plant, production time, and employee characteristics. A followup questionnaire was sent to respondents to clarify confusion in the 'skilled' versus 'unskilled' classification of employees. Since the survey did not contain a sufficient diversity of material types of erection time data to yield the anticipated results, this report discusses the future direction for the project. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A023 530 5/1 15/5

AIR FORCE CONTRACT MAINTENANCE CENTER WICHITA KANS

An Evaluation of Material Cost Escalation Impact on Proposals at Boeing Wichita.

DESCRIPTIVE MCTE: Final rept. 70P Ziegler.B. Alan : NOV 74

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Materials. \*Contracts. \*Air Force procurement.
Inflation/Economics). Cost estimates. Metals.

Data processing IDENTIFIERS: Price indexes (U)

The report presents a study of material escalation The report presents a study of material escalation factors at the Boeing Company. Whichita Division. The purpose was to set forth recommendations for allowable rates of material cost escalation for proposals submitted to the Air Force Pricing Analysis Division at Det 21.

AFCMC (AFLC). The report gives an overview of the contemporary situation and presents a methodology for developing a recommended allowable rate of material cost escalation. Subjects covered include materials usage, material cost indicators, method of analysis (historical data collection, regression, and subjective analysis), data base construction. and subjective analysis), data base construction, and a description of the quantitative analysis

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A023 442 14/1

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ILLINOIS UNIV AT URBANA-CHAMPAIGN COOFDINATED SCIENCE

Performance/Cost Evaluation of Pipel ned Cordic Function Units.

DESCRIPTIVE NOTE: Technical rept..

JAN 76 62P Hughes.Richard James :
REPT. NO. R-707, UILU-ENG-75-2243
CONTRACT: DAAB07-72-C-0259

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Functions(Mathematics), Algorithms.

Pipelines. Integrated circuits, Specifications, Arrays, Ratios, Performance
IDENTIFIERS: Trigonometric functions, \*Performance cost ratio. Cordic functions, Pipelined systems

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To measure the desirability of a function unit, the performance/cost ratio is used. The performance/cost ratio is the number of functions that can be initiated per second divided by the cost of the function unit. The cost is considered to be only function unit. The cost is considered to be only the cost of the integrated circuits needed to implement a design. It does not include the cost of the interface, power supplies, circuit boards or wiring. A simple model can be constructed, however, to include these costs. Several types of structures are used to implement the cordic algorithm. UNCLASSIFIED

DOC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-/ 023 416 1/3 14/2 11/4 11/6

GENERAL DINAMICS/FORT WORTH TE FORT WORTH DIV

Integnation of Hybrid Structure into Low-Cost Appearant Design - Rationale and Methodology.

DESCRIPTIVE NOT: Final rept. 1 Dec 74-30 Jun 75.
DEC 75 357P Brents.T E.:Bridges.J.

CONTRACT: F33615-75-C-3029

PROJ: AF-1207 TASK: 120701

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MONITOR: AFFOL TR-75-124

UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft, \*Airframes, \*Alloys, \*Composite materials, \*Low costs, Hybrid systems, Systems enqueering, Life cycle costs, Weight reduction, Structural properties, Maintainability, Manufacturing, Metals, Normetals, Cost analysis.

Base lines. Jet fighters. Methocology IDENTIFIERS: F-16 archaft. Epoxy matrix composites. Caroon fiber reinforced plastics.

Craphite reinforced composites

IAC ACCESSION NUMBER: MCIC-096312
IAC DOCUMENT TYPE: MCIC -HARD COPY--

This report contains the rationale and methodology for using a blend of advanced metallics and advanced Composites in the design of low-cost. low-weight aircraft. A systems engineering approach is developed via an example using a previously designed fighter aircraft as a baseline. The criteria for improvement is low life-cycle-costs for derivatives of the baseline aircraft that meet the specific performance measures. The rationale and methodology displayed pertains to the use of structural materials and associated manufacturing processes for airframe construction. The amphasis is on cost related decisions made during the conceptual design phase. This report contains a description of the salient properties of materials, typical material applications, and a description of the manufacturing applications, and a description of the materials. The rationale and methodologies described can be used for conceptual design of all types of aircraft.

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AD-A023 416

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMD?

AD-A023 406 9/2

RAND CORP SANTA MONICA CALIF

Privacy Protection in Databanks: Principles and Costs.

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SEP 74 23 REPT. NO. P-5296 23P Turn, Rein :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Data processing security. \*Data banks. \*Cost analysis, Computers, Protective equipment. Protection, Costs, Maintenance, Management planning and control. Cryptography. Computer files. Subroutines (U) IDENTIFIERS: (U)

DENTIFIERS: \*Privacy, \*Computer information security, \*Computer privacy, \*Personal privacy

Every databank system that contains identifiable every databank system that contains identifiable personal information requires adequate procedural and technical means for (1) safeguarding the data subjects' rights: (2) maintaining confidentiality of selected records; (3) preserving data integrity; (4) providing data security against unauthorized access and modification; and (5) assuring compliance with the protection requirements. The specific design of each of the above components of the protection system depends on the purpose and of the protection system depends on the purpose and functions of the databank system, the nature of the personal information stored and processed, the applicable statutory requirements, and the structure and capabilities of the computer system associated with the databank.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A023 223 17/2 14/1 15/3 12/2

JOINT TACTICAL COMPUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix E. Transportation Cost of Spares and Repair Parts.

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FEB 75 13P
REPT. NO. TIO-ORT-032-75-Vo;-3-app-e

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A022 062.
DESCRIPTORS: \*Tactical communications. \*Cost
effectiveness. Space parts. Logistics support.
Life cycle costs. Communication equipment. Costs.

Joint military activities
IDENTIFIERS: Transportation models (U) (U)

The purpose of the appendix is to present an equation for transportation costs which is sensitive equation for transportation costs which is sensitive to the weight of the item, the distance traveled and the postulated logistic support concept. The equation is obtained by mathematically combining two models (a) the transportation paths that the spares and failed/repaired items traverse and (b) the probabilities or percentages associated with each of four nossible transportation paths. This cost of four possible transportation paths. This cost element is concerned only with the transportation of spares, repair parts and failed/repaired items during the operation and support phase of the life cycle of the TRI-TAC systems.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-A023 080

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ARINC RESEARCH CORP ANNAPOLIS MO

Cost Analysis of Airborne Collision Avoidance Systems (CAS) Concepts.

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DESCRIPTIVE NOTE: Final rept. DEC 75 279P Kowal

Kowalski.Stanley : Haspert.J.

DEC 75 279P Kent: Witt, James:
REPT. NO. 1306-01-1-1479
CONTRACT: DOT-FA74WA-3506

MONITOR: FAA-EM 76-1

UNCLASSIFIED REPORT

DESCRIPTORS: •Collision avoidance, Airborne, •Cost DESCRIPTORS: \*Collision avoidance. Airborne. \*Cost analysis. \*Aircraft equipment. Aviation accidents. Aircraft equipment. Commercial aviation. Commercial aircraft. Military aircraft. Civil aviation. Life cycle costs. United States Government. Policies. Electronic equipment. Airborne. Installation. Inflation(Economics). Reliability(Electronics). Computer Programs. Mathematical models, Feasibility studies
IDENTIFIERS: "Collision avoidance systems, CAS
system, Avoids system, EROS system, Secant
system, CAS(Collision avoidance systems) (U) IDENTIFIERS:

This report presents the results of the cost and This report presents the results of the cost and operational evaluations developed for three CAS Concepts: the Honeywell AVOIDS, the McDonnell Douglas EROS, and the RCA SECANT. To provide a basis for assessing the economic impact of CAS on the various aviation communities, separate Cost evaluations have also been developed for general aviation, commercial aviation, and the military. This report presents the expected cost of opposition to the individual aircraft owners. cost of ownership to the individual aircraft owner and the cumulative life-cycle costs to the user communities, based on the competing manufacturers' data and independently developed electronics and installation cost data. (Author)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A022 794

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AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO

Historical and Forecasted Aeronautical Cost Indices.

(U)

William D.: DESCRIPTIVE NOTE: Lentzsch.Craic :Bandt.

REPT. NO. ASD-Cost research-110a-rev

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of report dated May 73. DESCRIPTORS: \*Cost estimates. \*Indexes. \*Computer aided instruction Forecasting. Air Force procurement. Avionics. Aircraft equipment. Linear regression analyses. Forecasting. Graphics IDENTIFIERS: Gross National Products

This report presents both historic and forecasted aerospace cost indices for cost estimators at the Aeronautical Systems Division, whight-Patterson AFB. Onio. Utilizing both Bureau of Labor Statistics and ASD Cost Library data. historical cost indices for six segments of the data, historical cost indices for six segments of the aerospace industry were developed. The segments are airframe covelopment, airframe production, engine development, engine production, avionics development and avionics production. These data are applicable to ASD programs from 1958 to 1972 and provide one input into the forecasting of future indices for these segments. The forecasts cover the ten-year period, 1973 through 1992. The historical data was correlated with the history of the GNP deflator and this exercise was combined with the Wharton Econometric Forecasting Unit predictions of the conometric Forecasting Unit predictions of the GNP defiator for the next ten years to produce the forecasted numbers. Instructive examples of the use of these indices in constructing escalation factors and then in the use of these factors to adjust Cost estimates are presented. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A022 793

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AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO

A Cost Performance Forecasting Concept and  $\mathbf{Model}$  .

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DESCRIPTIVE NOTE: Final rept.,
NOV 74 50P Karsch.O. Arthur: NOV 74 50P Karsch. REPT. NO. ASD-Cost Research-117

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Covpute. programs. Forecasting, Computer aided instruction. Statistical samples. Cost analysis. Linear regression analyses. Cost models. Subroutines

This report identifies and illustrates the This report identifies and illustrates the principles of a new and potentially valuable cost forecasting method. It is the objective of the technique to forecast Estimates At Completion (EACs) each month, utilizing data available in the Cost Performance Reports (CPRs). A single sample was used as a uniform data base for comparing the consequences of various mathods. These methods are the linear extrapolation of members complating cost various mathods in the consequences of various mathods. percent cumulative cost variance and unconstrained and unistrained regression analysis applied to an exponential relationship.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 9/2

AD-A022 792

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AERONAUTICAL SYSTEMS DIV ARIGHT-PATTERSON AFB ONIO

Computer Program Input Instructions for Cost Performance Forecasting Model.

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DESCRIPTIVE NOTE: Firs' rept..
FFR 75 24P Kassch.O. Arthur: FEB 75 24P Karsch.O. REPT. NO. ASD-Cost Research-117A

UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programs. \*Cost estimates. \*Computer aided instruction. Input output devices. Cost models. Subroutines. Forecasting. Punched cards. Keyboards

(U)

The Computer program is intended for use in The Computer program is intended for use in developing independent Estimates at Completion (EACs) for ongoing projects/programs. The information Contained in this paper is intended to provide the program user a set of simplified key punch instructions. These instructions plus a minimum knowledge of Fortran would enable the user to input the program.

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZGMOT

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BOEING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING DIV

Navy Medical Care Study: Alternatives to a Physician Shortfall. (U)

DESCRIPTIVE NOTE: Rept. for Sep 74-Mar 75.

MAR 75 114P Maggoner.John J. :Rahm.
Michael :Powell.John H., Jr:
CONTRACT: N00014-73-C-0341

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD782 569, AD-782 571 and AD-A022 788.
DESCRIPTORS: •Medical services. •Manpower. •Cost Shortages, Naval planning, Personnel management, Naval budgets, Allocations, Resource management, Military medicine. Health care facilities. Economic analysis, Insurance. All volunter. Naval personnel, Military dependents. Civilian (U) personnel DENTIFIERS: Workloads, Health insurance.

DENTIFIERS: Workloads, Health

The probable magnitude of a shortfall of Navy physicians below programmed strength is analyzed. Alternative methods of providing medical care under shortfall conditions are examined for feasibility. Cost analysis is performed on feasible alternatives. (Author) (u)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

10-A022 788 6/5 14/1 5/9

BORING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING DIV

Navy Medical Care Study: Planning and Programming. (U)

DESCRIPTIVE NOTE: Rept. for Jan-Aug 74.
AUG 74 115P waggoner.John J
Ken W.:
CONTRACT: N60014-73-C-0341 waggoner.John J. :McCarty.

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendices dated Aug 74. AD-A022 789.

DESCRIPTORS: \*Medical services. \*Cost analysis.

\*Manpower. \*Medical personnel, Military medicine.
Navy. Health Care facilities. Insurance.
Economic analysis. Recression analysis. Naval Planning Naval budgets. Job analysis. Maval planning Naval budgets. Job analysis. Mathematical prediction. Dentists. Physicians. Resource management. Patients. Dentistry. Surgery. Naval personnel. Civilian personnel. Military dependents, Demography
IDENTIFIERS: Morkloads, Surgeons,
CHAMPUS(Civilian health and medical program of the
uniformed services), Civilian health and medical
program of the uniformed services, Health insurance, (U) ( 11) \*Health care Costs

The relationship between the size and composition of beneficiary populations and output levels is or beneficiary populations and output levels is analyzed in detail. The results indicate that workload projections can be made accurately based on the size and growth of different population segments. Further cost analysis is performed to determine the total and manginal costs of medical care applicable to various program elements and appropriation categories. (Author) (0)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 14/1

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BOEING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING

Navy Medical Care Study. Planning and Programming. Appendices.

DESCRIPTIVE NOTE: Final rept. for period ending Aug 74. AUG 74 130P Water Water W.;
CONTRACT: N00014-73-C-0341 Waggoner.John J. :McCarty.

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Appendices to report dated Aug 74. AD-A022 788.

DESCRIPTORS: \*Medical services. \*Cost analysis.

\*Manpower, Medical personnel, Military medicine. \*\*Manpower. \*\*edical personnel. %::!tary medicine.
Navy, Health care facilities. Insurance.
Economic analysis. Regression analysis. Naval
planning. Naval budgets. Resource management.
Mathematical prediction. Naval personnel. All
volunteer. Civilian personnel. %:ilitary dependents.
Pattermany(Parsonnel). Applies debt. (U)

Retirement(Personnel). Active duty.
Demography, Statistical data
IDENTIFIERS: CHAMPUS(Civilian health and medica) program of the uniformed forces). Civilian health and medical program of the uniformed forces, Health insurance

Contents: Explanation of Analytical Techniques Used to Quantify Cost Behavior — — Regression analysis, Cost behavior models. Data sources, and Results and interpretion: Navy Health Care Beneficiary Populations: Cost of Retirement: Bured's Expense Operating Budget Structure: EOB Expense Data by WIC and Cost Center; and Expense By Program Element UIC and Appropriation Category.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A022 31: 13/10 14/1

NAVAL SHIP ENGINEERING CENTER HYATTSVILLE MD

Marginal Cost Factors for Surface Compatent

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MAR 76 4 Graham.Clark: 419 Howell.Jay Stanley . Jr.:

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Annual Technical Symposium (13th). Association of Scientists and Engineers of the Naval Air and Sea Systems
Commands, 12 Mar 76. Arrington, Va.
DESCRIPTORS: "Naval vessels. "Cost ana vsis. \*Surface ships. Computerized simulation. Marine engineering. keighting functions. Variations. Weapons. Scace(Room). Cruisers. Destroyers. Frigates. Electronic equipment (DENTIFIERS: \*Marginal costs. Design IDENTIFIERS:

The concept of utilizing marginal cost factors to determine the overall ship impact of design features is examined. The assumption is made that the design parameters for a feature such as the addition of a parameters for a feature such as the addition of a piece of equipment can be broken down into requirements for weight, space, manning and electrical power and that these requirements and linearily superimposable. Marginal weight factors in terms of changes in ship displacement were generated utilizing a computerized ship synthesis model. The validity of utilizing marginal weight fautors to predict the eyerall weight impact on a ship was confirmed through a comparison with weight impact predicted directly by the synthesis model. The overall conclusion of the study was that the concept of marginal cost factors is valid for predicting the impact of design changes on naval ships. Proover, a considerable amount of work remains before the technique can be universally remains before the technique can be universally implemented throughout the design community. (U)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

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NAVAL MATERIAL COMMAND WASHINGTON D C

Automatic Testing. A Tool for Improving Fleet Readiness.

(U)

MAR 76 172 Neumann.George W. :

UNCLASSIFIED REPORT

SUPPLEYENTARY NOTE: Presented at the Annual Technical Symposium (13th). Association of Scientists and Engineers of the Naval Air and Sea Systems Commands, 12 Mar 76, Arlington, Va. DESCRIPTORS: \*Test equipment, \*Cost analysis.
\*Automation, \*Manpower, Automatic.
Fleets(Ships), Operational readiness.
Reduction, Costs, Environments, Monitors. Minicomputers, Standardization, Microprocessors, Reliability
IDENTIFIERS: ATE(Automatic Test Equipment).
Automatic test equipment, Self test equipment.
Built in test equipment (4) (U)

During the last few years the realization that automatic testing is a convenient tool for reducing manpower and costs has become apparent. However, if the application of automation is not properly done, the end result can scutally increase costs and cause many other problems. This paper discusses Navy problems in automatic testing and some remedies. Included will be a discussion of the following topics: (1) An RDT and E program for development of automated testing techniques: (2) Selection and acquisition of the proper Automatic Test Equipment (ATE) (i.e. built-in, special purpose, general purpose, self-test): (3) Problems in acquiring ATE software; (4) Standardization of ATE: and (5) Description of available organizations, tools and aids to assist in acquiring and applying ATE (Author) (Author) (u) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A022 296

18/9

RAND CORP SANTA MONICA CALIF

Comments on LWFBR Cost-Benefit Aralysis

(U)

AUG 75 222 Alexander.Arthur J. :Rice. Jonald 5. : REF\*. NO. P-5496

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Liquid Metal Fast Breeder Reactur program.
DESCRIPTCRS: \*Breeder reacturs. \*Cost benefits. Learning curves. Decision making IDENTIFIERS: \*Liquid metal fast preeder reactors. \*Benefit cost analysis

(U)

This review of the cost-benefit analysis of the LMFBR is in three sec ions, each of which looks at the issue from a somewhat different perspective. The first section examines several of the most important assumptions and detailed projections which

underlie the analysis. Section II reviews the role of cost-benefit analysis as a tool for decisionmaking in the LWFBR case, based on the analysis contained in the PFEIS and on the modifications suggested by our review. Based on a synthesis of these findings, the third section suggests some quides for future policy.

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO?

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RAND CORP SANTA MONICA CALIF

A Critique of Cost-Effectiveness.

(u)

(U)

NOV 75 9 REPT. NO. P-5524

Quade, E. S. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the session on Cost-Effectiveness, DRSA/TIMS, 17 Nov 75, Laz Vegas.

Nev.
DESCRIPTORS: \*Cost effectiveness. \*Economics. Cost
analysis, Decision making, Deficiencies. Economic
analysis, Methodology, Comparison, Assessment,
Cost benefits

It is important that a decision take into account It is important that a decision take into account all the relevant information whether or not this information lends itself to inclusion in formal analysis. All forms of analysis have their virtues and drawbacks. None can take into consideration or present all the information. A single cost-effectiveness calculation leaves out a great deal but it does emhasize the aspects that are usually the most important and of greatest interest to the decisionmaker. It gives excellent results provided the alternatives are reasonably similar and seek the ultimate goal through the same target so that their effectiveness in attaining that target can be measured on the same scale. Cost-benefit analysis measured on the same scale. Costmbenefit analysis can take into account many more aspects of a decision but it does so at the expense of emphasis and through a great deal of heriod quantification that is a great deal of herioc quentification that is extremely ambitrary and, where values are concerned, is based on the judgment of the wrong puople. Builtiple cost-effectiveness calculations, including some that do not translate all costs into monetary units obviously go farther in taking things into account then the traditional single comparison that we often think of wnen we say cost-effectiveness analysis. It has the additional advantage that it not only forces the judgment on the right people but calls their attention to which judgments are needed.(U) UNCLASSIFIED

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RAND CORP SANTA MONICA CALIF

Cost Considerations in Policy Analysis.

(u)

NOV 75 12P REPT, NO. 2-5534

Fisher.G. H. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Cost Analysis Techniques in Operations Research session of the National CRS4/7125, 17 Nov 75. Las Vegas. Nev. DESCRIPTORS: . Cost analysis.

\*Policies. Cost Denefits. Cost estimates. Efficiency. Effectiveness. Management planning and control. Economics. Decision making

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A022 115 15/3 15/5 5/9

OPERATIONS RESEARCH INC SILVER SPRING MD

Naval Reserve Innual Operating Costs.

DESCRIPTIVE NOTE: Final rept 16 Aug 74-30 Jun 75.
OCT 75 234P Mason,Robert T.; Daniels,
Parmely M.; McDermott, Wichael N.;
REPT. NO. ORI-TR-932
CONTRACT: N00014-75-C-0086

NE-043-194

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Military reserves. \*Navy. \*Cost estimates, Naval operations, Maintenance, Naval personnel, Naval logistics, Logistics support, Naval research, Mathematical models
IDENTIFIERS: Cost models (U)

The report describes an analytical study effort conducted by Operations Research. Inc. (ORI) aimed at enhancing the Navy Resource Model (NARM) with rescrict to its ability to generate estimates of the costs associated with the Naval Reserve. There are two general products resulting from ORI's endeavors: (1) Information concurning the numbers, types, and composition of all of the various units in the Naval Reserve: equations for generating estimates of personnel costs, hardware costs, and support costs; and suggested report formats for displaying the costs of the Naval Reserve by program element and Naval suggested report formats for displaying the cost; the Naul Reserve by program element and Naval Reserve program. (2) A computer; zed model which rapidly and consistently generates: (a) RPN 'factors' that consider the number of authorized paid drills, and (b) estimates of the RPN budget which consider the units' manning.

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DDC REPORT BIBLIUGRAPHY SEARCH CONTROL NO. ZOMOT

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AD-A022 086 1/3 14/1

RAND CORP SANTA MONICA CALIF

Parametric Equations for Estimating Aircraft Airframe Costs.

DESCRIPTIVE NOTE: 1 term rept..
FEB 76 154P Large.Joseph P. :Campbell.
Harry G. :Cates.Jov.d:
REPI. NO. R-1693-1-FA/E
CONTRACT: DAHC15-71-C-0220

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### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supplement to report dated May 75. AD-A013 258. DESCRIPTORS: \*Cost est utes. \*Airinames. \*Equations, Aircraft, Costs, Flight Lesting, Data acquisition, Quality control, Manufacturing, Manhours, Weight, Time, Prototypes, Regression analysis, Labor IDENTIFIERS: \*Parametric equations. Tooling (U)

A set of generalized equations for estimating development and production costs of aircraft airframes on the basis of such characteristics as aircraft weight and speed. (Extensive investigation aircraft weight and speed. (Extensive investigation has shown that these characteristics explain cost variations better than any other objective parameters.) Equations derived by multiple-requession techniques are presented for each of the major cost elements, for total program cost, and for prototype development costs. The report explains the derivation of each equation and describes the treatment of the data, the fitting of regression equations, and selection of preferred equations. A detailed numerical example is included which applies to preferred equations and compares the results to those obtained usi a several sets of alternative equations. (Author) equations. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A021 944

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AIR FORCE ACADEMY COLO

The Deterioration of Pension Plan Conditions in Large Corporations: The Need for More Extensive Disclosure.

(U)

DESCRIPTIVE NOTE. E. Final rept.. 32P Fietcher.John C. :Wilcox. FEB 76 Kirkland A. REPT. NO. USAFA-TR-76-2

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Retirement(Personnel). \*Corporations, \*Cost analysis, Fringe benefits, Dif (culty, Accounting, Legislation, Statistical data, Modification IDENTIFIERS: \*Pensions, Economic surveys (U)

This paper describes a lield study undertaken to determ no the significance of pension plans.
Recent deterioration in the Conditions of selected plans and the need for more extensive disclosure are discussed. The results of a questionnaire survey are analyzed. A new disclosure format is (4)

## UNCLASSIFIED

DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A021 913

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The A-7 ALOFT Cost Wodel: A Study of High Technology Cost Estimating.

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

(U)

DESCRIPTIVE NOTE: Master's thesis. DEC 75 271P Johnson..onald Lloyd : Knobloch.Farle William :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs. \*Fiber optics. DESCRIPTORS: \*Life cycle costs. \*Fiber optics.
\*Cost estimates. Economic analysis. Technology.
Mathematical models. Naval planning. Circuit
interconnections. Avionics. Cost analysis. Attack
bombers. Navigation. Aircraft fire control systems.
Comparison. Cosxial cables. Data links. Delphi
techniques. Economic models. Forecasting.
Uncertainty. Theses
IDENTIFIERS: ALOFT(Airbonne Light Optical
Fiber Technology). Airbonne light optical
fiber technology. A-7 aircraft

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This analytical study contains the development of an appropriate life cycle cost (LCC) model for the A-7 Airbrone Light Optical Fiber Technology (ALOFT) system. The model was developed to support an A-7 ALOFT economic analysis which will compare the total systems costs and performance benefits of an 4-7 fiber optic linked navigation and weapons delivery system to existing or oroposed wire interconnect designs. Major features of this study include the development of: (1) A process to derive cost estimates of a high technological development in the early conceptual stage: (2) An appropriate LCC model for the A-7 ALOFT economic analysis: and (3) Fiber optic costing methodology to support the LCC analysis. This analysis is a follow-on study to An Approach to the Estimation of Life Cycle Costs of a Fiber Optic Application in Military Aircraft AD-A019 379.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Life Cycle Cost Model; User's Guide. Volume I.

DESCRIPTIVE NOTE: Final rept.,

JAN 76 129P Brancon, Richard C.;
REPT. NO. DCA-R-15-Vol-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Life cycle costs, \*Cost estimates, \*Weapon systems, \*Army procurement, Computerized simulation, Cost analysis, Time sharing, Cost effectiveness, Parametric analysis, Army equipment, Costs, inflation(Economics), Army planning, Army budgets, Trade off analyses, Input output processing. processing (U)

This document describes the Army Life Cycle Cost Model, a time sharing cost model which produces both static and time phased parametric cost estimates for major weapons systems. The output reports conform to the latest Research and Development, Investment, and Operating and Support pamphirts. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT

AD-A021 740

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JOINT TACTICAL COM-UNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume IA. Management Cverview.

(U)

DESCRIPTIVE NOTE: Final rept. NOV 75 28P -EPT. NO. TTC-ORT-032-75-Vol-1-A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of report dated Dec 73. See also Volume 2. AD-A003 279. DESCRIPTORS: \*Tactical communications. \*Cost effectiveness. Trade off analyses. Life cycle costs. Joint military activities Logistics support. Planning

The report presents an overview for management The report presents an overview for management purposes of a program to develop and implement concepts of cost effectiveness analysis to be used for architectural design, integrated logistic support, economic analyses, and equipment program trade-off studies involved in the development and acquisition of joint tactical communication systems. Subsystems, and equipment. The fundamental concepts used for estimating life cycle costs and measures of effectiveness of TRI-TAC development and acquisition programs are briefly described. The report also presents a plan of action involving the Services/Agencies which is nacessary to implement Services/Agencies which is nacessary to implement these cost effectiveness concepts and Methodologies.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A021 717 15/5 5/1

DARCOM INVENTORY RESEARCH OFFICE PHILADELPHIA PA

Inventory Costs at US Army Materie: Command Depots. (U)

DESCRIPTIVE NOTE: E: Final rept., 30F Deemer DEC 75 30 REPT. NO. 1RO-235 Ceemer.Robert L. :

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Supply depots. 'Logistics management, \*Cost analysis, \*Inventory control. Army budgets.
Army procurement, Army planning, Storage,
Inventory, Inventory analysis, Tables(Data),
Regression analysis, Equations (u)

The holding cost rate and the cost of ordering The holding cost rate and the cost of ordering stock from the Inventory Control Points are estimated as they apply to supply management activities of the Installation Supply Accounts of the AMC Depots. These costs are used to compute the inventory levels for the Economic Inventory Procedure Tables of AR 710-2 that are used by the depots. The costs are composed of several constituent functions which are the dependent variables in a regression analysis. (Author)

#### UNCLASSIFIED

DDC REPORT BIRLIOGRAPHY SEARCH CONTROL NO. 20M07

AD-A021 712 13/8 14/1 5/4

RAND CORP SANTA VONICA CALIF

Measurement of Technological Innovation by Firms. (U)

SEP 75 39 REPT. NO. P-5496 30P Harman. Alvin J. :

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Econometric Society World Congress (3rd). Aug 75. Toronto (Ontario).

PESCRIPTORS: \*Quality control. \*Computers.
\*Machine tool industry. \*Cost effectiveness.
\*Economic models. Industrial production. Creativity. Technology. Economics. Scientific

IDENTIFIERS: \*Technological change. \*Product improvement. \*Cost reduction. \*Technological innovation. \*Econometries

The specific objective of this paper is to describe the preliminary results of our theoretical model development and our approach to measuring product quality change in the computer and machine tool industrials.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFE OHIO SCHOOL OF

Evaluation of F-16 Subsystem Options Through the Use of Mission Completion Success Probability and Designing to System Purformance/Cost Models.

DESCRIPTIVE NOTE: Master's thesis.
SEP 75 255P Doman.Allan M. ;Dunkerley. Alan G.

REPT. NO. GSM/SM/75D-13

### UNCLASSIFIED REPORT

Availability: Available in microfiche only.
DESCRIPTORS: \*Uet fighters, \*Reliability, \*Cost estimates, \*Air Force procurerent, Failure, Probability, Mission profiles, Abort, Cost analysis, Logistics management, Design to cost, Mathematical models, Maintainability, Thases IDENTIFIERS: Cost models, Life cycle costs, F-16 aircraft

The Mission Completion Success Probability (MCSP) and Designing to System Performance/Cost (DSPC) models developed by the Office of the Assistant for Study Support provide the the Assistant for Study Support provide the program manager with a quantitative method of analysis to aid in reliability management. The MCSP model calculates the probability of mission completion without an abort-causing failure of a subsystem. In addition, it produces a ranking of subsystems identifying those most likely to cause aborts, and performs a sensitivity analysis on non-redundant subsystems. The DSPC model analyzes combinations of subsystem options to define those options which lead to a higher MCSP at lower cost. Various optimal configurations are presented, allowing trade-offs of MCSP for different acquisition costs, logistic support costs, or total costs. When combined with the MCSP results, the costs. When combined with the MCSP results, the DSPC model extends the methodology for applications to life cycle cost analysis.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 1/3

AD-A021 258

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AIR FORCE INST OF TECH WRICHT-PATTERSON AFB OHIO SCHOOL OF

Evaluation of F-15 Operations and Maintenance Costs Based on Analysis of Category II Test Program Maintenance Data.

(2)

DESCRIPTIVE NOTE: Master's thesis.

AUG 75 179P Howard.Chr
REPT. NO. GSY/SM/75S-3 Howard. Christopher B. :

### UNCLASSIFIED REPORT

DESCRIPTOPS: \*Let fighters. \*Cost analysis. \*Maintenance. Regression analysis. Failure. Reliability. Mathematical models. Cost estimates. Air Force procurement. Theses
IDENTIFIERS: Cost models. Life cycle costs. F-15 (U) aircraft (U)

The report contains an analysis of the maintenance data collected as part of the F-15 Category II test program from April 1974 through February 1975 with the intent of udating operations and maintenance cost predictions. A bhief review of the Systems Effectiveness Data System is included to provide background on the source of the name maintenance data. This is followed by an notinged to provide background on the source of the raw maintenance data. Into is followed by an analysis of maintenance man-hours per flight hour (MWH/FM) trends based on regression analysis to determine the expected operational maintenance requirements. Failure data are analyzed to determine system and subsystems reliability. Two reliability models are used for this analysis: an exponential model which assumes a constant instantaneous failure rate, and a Weibull model which can represent either in increasing on a which can represent either in increasing or a decreasing failure rate. (u)

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AD-A021 210 13/10

ARCTEC INC COLUMBIA MD

Winter Rate Study for Great Lakes-St. Lawrence Seaway System. Volume I.

DESCRIPTIVE NOTE: Final rept.,
DEC 75 123P Kotras
REPT. NO. 00246-C-3
CONTRACT: DACW23-75-C-0043 Kotras.T. : Peter.J. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Inland waterways, \*ice formation. •Marine transportation, \*Cost analysis, Winter. Shipping, Rates, Time studies, Great Lakes, Computer programming IDENTIFIERS: \*Ice navigation, \*Saint Lawrence (U)

Waterway

This study is phase 2, part 8 of the Great Lakes-St. Lawrence Seaway Navigation System Study. Objectives were twofold: (1) to estimate total transit time for ships navigating the Great Lakes-St. Lawrence Seaway system during a winter season and translate these times into vesse! operating costs and annual freight rates for major commodity routes, and (2) to estimate effect on these annual freight rates of improvement levels, length of navigation season, winter severity, and vessel fleet mix. A computer ridel of Great Lakes-St. Lawrence Seaway is developed. It was concluded that all-year navigation on the Great Lakes-St. Lawrence Seaway is commercially feasible. Annual freight rates would decrease for laker bulk cargo routes, but increase for overseas routes. Ships which would benefit most from season extension would be the larger, more powerful and more economical ships. Contractor recommends that the overall Great Lakes-St. Lawrence Seaway system model This study is phase 2, part B of the Great Lakes-St. Lawrence Seaway system model planned for Phase 3 of this study be (U) developed.

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BATTELLE COLUMBUS LABS CHIO

Definition of a Systematic Costmand Logistics-Effectiveness (Scale) Procedure.

DESCRIPTIVE NOTE: final rept. 1 Jul-3 Nov 75.

JAN 76 110P Cork.Thomas R.: Welp.David

W.: CONTRACT: F33601-75-90373

MONITOR: AFLC 75-16

UNCLASSIFIED REPOR.

DESCRIPTORS: \*Logistics management. \*Computer applications. Management information systems.

Management planning and control. Logistics planning. Cost analysis. Life cycle costs. Data management. Bibliographies. On line systems.

IDENTIFIERS: •Cost models. •Life cycle management.

(0) •On line interactive systems (U)

A Systematic Cost- and Logistics-Effectiveness (SCALE) procedure is defined in this report. The objectives of this brief study were to define the concept of SCALE, review available logistics support computer models, propose an initial family of models, and postulate how the SCALE procedure can be used. The SCALE concept calls for the use of available support cost, support activity simulation, and mission performance computer models in an interactive framework. Five U.S. Air Force models (LSC. MOD-METRIC. ORLA. L-COM. and AEP) and two U.S. Army models (GEMM and LOCAM4) are proposed to form the basis for an initial SCALE family of models. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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PURDUE UNIV LATAYETTE IND SCHOOL OF AERONAUTICS ASTRONAUTICS AND ENGINEERING SCIENCES

Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model. (u)

DESCRIPTIVE NOTE: Final rept. 26 Feb-1 Oct 75, OCT 75 126P Drake, John W.; Rada. Mostafa R.; Allen, James J., Jr; REPT. NO. 75-2 CONTRACT: F33615-74-C-2014 PROJ: AF-3145 TASK: '314532 WONITOR: AFAPL TR-75-88-Pt-2

UNCLASSIFIED REPORT

SUPPLEYENTARY NOTE: See also Phase 1, Rept. no. 74-1. AD-A021 075. DESCRIPTORS: \*Turbojet engines. \*Jet engines. \*Costs, \*Cost estimates, Regression analysis, Computerized simulation, Programming languages, Computer programs, Manufacturing, Production, Turbine parts, Disks
IDENTIFIERS: J-69-T-25 engines (U)

This report describes two methods of estimating the production costs of jet engines not yet built:
(1) By building up the costs of the 'cost driving' parts in a traditional Industrial Engineering fashion and (2) By using regression techniques to estimate either entire regression techniques to estimate either entire engine costs (RAND approach) or parts of engines. The report concludes that both methods are feasible though the former has a greater theoretical accuracy. Potential problems of accounting for changes in performance and schedule may well give the second method the edge in practical application on the bases of cost, speed and speed of implementation. of cost, speed and speed of implementation. (Author)

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PURDUE UNI: LAFAYETTE IND SCHOOL OF AERONAUTICS ASTRONAUTICS AND ENGINEERING SCIENCES

Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost

Model, Phase I.

DESCRIPTIVE NOTE: Final rept. 9 Sep 74-31 Dec 74.

OCT 75 64P Drake.John W.:Reda.

Mostafa R.:Allen.James J.:Jr:

REPT. NO. AA/ES-74-1

CONTRACT: F33615-74-(-2014

PROJ: AF-3145

TASK: 314532

MCNITOR: AFAPL TR-75-88-Pt-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Jet engines. \*Production engineering. \*Cost analysis. Manufacturing. Cost estimates. \*Cost analysis, Manufacturing, Cost estimates. Data bases, Computer programming, FORTRAN. Programming languages, Jet aircraft IDENTIFIERS: TRAC programming language, APL programming language, PL/1 programming language. LISP programming language, SNOBOL programming language, BASIC programming language (U) (U)

This report describes two methods of estimating the production costs of jet engines not yet built:
(1) By building up the costs of the 'cost
Driving' parts in a traditional Industrial
Engineering Fashion and (2) By using
regression techniques to estimate either entire engine costs (RAND approach) or parts of engines. The report concludes that both methods are feasible though the former has a greater theoretical accuracy. Potential proplems of accounting for changes in performance and schedule may well give the second method the edge in practical application on the bases of cost, speed and speed of implementation.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07

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MARTIN MARIETTA AEROSPACE DRLANDO FLA

PWB Production Assembly Cost Guidelines.

(4)

(U)

DESCRIPTIVE NOTE: Final quarterly progress rept. 1 Aug-

31 Dec 75. DEC 75 Wendell R. 1052 Osborne.Sol C. ; Hutchinson. :Tartaglia.Frederick E. :

REPT. NO. GR-13826-1 CONTRACT: DAABO7-75-C-0029

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Assembly, \*Automation, \*Costs, \*Machines, Trade off analyses, #anual operation, Digital systems, Magnetic tape. Circuit boands, Optical target designatons IDENTIFIERS: \*Automatic assembly, \*Numerical control indicator, Manual assembly, Numerical controlied machines (U)

Work is continuing on the preparation of the PWB Production Assembly Cost Gu'delines Manual to provide guidelines to enable users to select and evaluate manual and automatic assembly methods. The section on assembly techniques has been Completed. section on assembly techniques has been completed this includes description of assembly procedures, manual working to drawings, to visual aids, and manual to programmed assembly equipment, NCI. Also included are computer/NC tape controlled machines used separately and as part of a machine assembly system. Equipment specifications have been formulated, two of which are included in this Quarterly Report. Also, standard performance Quarterly Report. Also, standard performance time tables have been expanded and put into final form Assembly cost analysis, though completed and reported in the first quaterly report, has been further simplified as part of the cost forms section. Improved forms have been included because of their close relationship with this section for review and cross relationship with 155 Section to review and comment. Design for automation analysis, not previously reported, is included in its entirety in its near completed state to Dermit a comprehensive overview. Design for automation is presented in network format from original circuit design and component selection ... basic board artwork, to packaging, and to final assembly. (U)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A020 659

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ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Historical Inflation Program.

(U)

DESCRIPTIVE NOTE: First rept..
JAN 76 37P Linge. JAN 76 37P Lilge.Ralph W. : REPT. NO. USAAVSCOM-TR-76-1

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Inflation(Economics). \*Army aircraft. \*Cost estimates, Money, Army budgets. Cost analysis, Corputer programs, Computations, Methodology, History IDENTIFIERS: \*Cost indexes

(U)

This report extends, revises, and summarizes previous efforts to develop the necessary rationale previous efforts to develop the necessary rationals and methodology necessary to construct historical inflation indices relative to Army aircraft. In addition, a computerized Historical Inflation Program is presented and described. The program can be updated monthly, is easily revised for changes in Bureau of Labor Statistics methods, and capable of handling data through the transition year. capable of manding data through the transition year FY 71. Output is expressed as monthly. Cuarterly, Calendar year inflation indices (in Calendar Year 1967 base) and inflation factors (in any Fiscal Year base). These indices and factors provide a means of accurately adjusting historical cost data to constant year dollars. (U) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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13/12 13/13 9/2

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

A Design-Aid and Cost Estimate Model for Suppressive Shielding Structures.

DESCRIPTIVE NOTE: Final rept..
DEC 75 124P Pei.Richard S. K. :
REPT. NO. USAMC-IIC-02-08-76-413

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Shielding. \*Computerized simulation.
\*Computer aided design, \*Cost estimates.
Suppression, Structures, Ventilation,
Cosfficients, Bending, Yield, Moments,
Bearistructural), Penetration, Fragments,
Parameters, Plates, Thickness, Materials,
Structural members, Fabrication, Welding,
Computer programs, Variables, Explosives,
Explosions, Safety, User needs
IDENTIFIERS: \*Suppressive shielding

A computer cost mode: of suppressive shielding structures has been constructed and is presented in the report. This model consists of design-aid and cost estimation programs which, with proper inputs, calculates and outputs specific design and cost variables of suppressive structures. Design variables include the following: venting coefficient, plastic bending and yield moments of beams, penetration of primary fragments, and the total effective thickness of plates. Cost output variables include: material, fabrication, welding, and total costs of panels, frame, door, and foundation of a cubical suppressive structure. A description of the model and its construction details are reviewed in the repo. t. A user's guide which includes step by step instructions in data inputs is also provided. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A020 457

HUGHES AIRCRAFT CO FULLERTON CA GROUND SYSTEMS GROUP

Reliability Acquisition Cost Study

14/4

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DESCRIPTIVE NOTE: Final technical nept..
NOV TS 59P Schafer.R. E. :Mead.G.
T. :Angus.J. E. :
CONTRACT: F3C602-74-C-0139

PROJ: AF-5519 TASK: 551902

MONITOR: RADC.GIDEP

TR-75-270.E070-0873

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Also available as GIDEP-347.40.00.00-F9-06.
DESCRIPTORS: \*Reliability(Electronics). \*Cost analysis. Wathematical models. Mathematical prediction. Regression analysis. Graphics. Curve fitting. Data bases
IDENTIFIERS: Goodness of fit tests

(U) (U)

This report presents the results of a quantitative investigation into the relationship between reliability expenditures (costs) and reliability in the development phase for ground systems. The reliability program was divided into three phases: design, parts, and evaluation. In particular, three areas were addressed. First, quantitative relationships were developed for predicting reliability costs, by phase, of the reliability program and total cost, based on commonly available independent variables. Sevend, prediction models were developed for achieved reliability. Next, reliability gain (due to expenditures in each phase) has studied and models were developed for estimating reliability gain; total and by phase. Finally, optimal allocation of reliability resources was investigated. Models were developed and a solution found. The data base consisted of ten systems of relatively recent vintage. The data were subjected to an evaluation for validity and factors affecting reliability and reliability expenditures which could only confuse the results were normalized out of the data.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Workload Analysis of a Wilitary Repair Depot.

(U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 75 205P Clark.Donald A.;
REPT. NO. GOR/SM/755-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Depots, \*Wilitary facilities, \*Cost analysis, Labor, Materiais. Least squares method, Regression analysis, Cost effectiveness, Work

measurement, Theses
IDENTIFIERS: Indirect costs

(U)

Depot sizing is a topic of concern to the Air Force. Determination of the proper size of a repair depot requires a close lock at the effects of volume level and economies of scale upon depot costs. In this analysis, direct labor, direct material and overhead costs are examined at time and volume levels change. An output measure is pre inted as well as an approach for use in workload unalyses. Specifically, this study centers on the Aerospace Guidance and Methology Center (AGMC) located at Newark AFS, Ohio. Relations for estimating direct labor hours, direct labor costs, direct material costs, and overhead costs are derived for 12 end items using least squares regression techniques. The 'measure of merit' problem is examined with respect to finding a workload mix and volume level which is cost effective. An approach to workload analysis is presented which measures the effect on the existing depot workload of adding or deleting an end item.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Some Results on An 'Income Fluctuation

(0)

DESCRIPTIVE NOTE: Research rept..

DEC 75 31P Schechtman.Jack :Esci
Vera L. S. :
REPT. NO. ORC-75-23
CONTRACT: NOC014-76-C-0134. NSF-SOC-75-15566 Schechtman.Jack :Escudero.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Operations research, \*Income.
\*Savings. \*Dynamic programming. \*Purchasing.
\*Economics. \*Stochastic processes. \*Cost analysis.
Coisumers. Commerce. Inventory control. Brazi
IDENTIFIERS: \*Earnings. \*Income fluctuation
problem. Tash flow. Competitive prices. Rio de

(11)

A consumer at each period, given the income available, y, has to decide how much to consume and save. If hy consumes C > or = units he gets u(c) unit of satisfaction or utility, and if x = y = c > or = is the amount saved then the available income in the next period is nx + oreca(k)where omega(k) is a random varizble, and r is an interest factor that is assumed to be known with Interest factor that is assumed to be known with certainty. Infinite time norizon problems are considered, and it is shown that if 0 < delta r < 1, where 0 < delta < 1 is a discount factor, then the limiting policy is optimal. Cuestions about the behavior of the stock level are considered, such as boundness and it is given an example that shows that the stock level might converse allower events. the stock level might converge almost surely to infinity.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Aircraft Airframe Cost Estimation by the Application of Joint Generalized Least Squares.

(U)

(U)

DESCRIPTIVE NOTE: Master's thesis. NOV 75 119P Handel. Vernon : REPT. NO. GDR/SM/75D-7

## UNCLASSIFIED REPORT

DESCRIPTORS: •Military aircraft, •Airframes, •Cost estimates, Least squares method, Mathematical models, Statistical analysis, Mathematicai prediction, Air Tunce procurement, Contracts. Theses

Joint Generalized Least Squares is a Joint Generalized Least Squares is a statistical technique which allows for the interaction of a set of regression equations through correlated disturbances. Aircraft airframe cost estimation way be accorplished by disaggregation into elements of cost such as material. labor, tooling, and engineering. Data for various types of aircraft are used to demonstrate the effect of using Joint Generalized Least Squares in developing cost estimating relationships for the elements of cost estimating relationships for the elements of airframe cost. A comparison is made to relationships developed using Ordinary Least relationships developed using Ordinary Least Squares. Dependent on the number of observations, the number of relationships developed jointly, and the different explanatory variables used, the variance of the relationships may be reduced by using Joint Generalized Least Squares. The Joint Generalized Least Squares technique is extended to permit revision of predictions using the joint distribution of the elements of cost.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB ONIO SCHOOL OF

Microeconomic Theory Applied to Parametric Cost Estimation of Aingraft Ainframes.

(0)

DESCRIPTIVE NOTE: Master's thesis
DEC 75 86P Dunne.Wil DEC 75 86P Dunne.William E.: REPT. NO. GCP/SM/75D-3

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Military airchaft. Finframes. \*Cost estimates. \*Air Fonce procurement. Mathematical models. Control theory. Nonlinear programming. Least squares method. Statistical analysis. Production. Time. Contracts. FORTRAM, These IDENTIFIERS: Microeconemics. Sensitivity analysis. ( U ) Parameter estimation

The theories of microeconomics and optimal control were used to formulate a parametric cost estimation model that provices an insight into the cost flow of an airCraft airframe production program. The model developed uses original total airframe quantity (volume) and initial total production contract time, as well as the traditional values of cumulative quantity. AMPR weight, and speed, as explanatory quantity. AMPR weight, and speed, as explanatory variables. A form of the model was solved by both a constrained least squares approach and by a nonlinear algorithm with similar results. In the amalysis of the model the parameters of volume and time were not found to be statistically significant. The surrogate variables of actual Contract volume and time do not explain a significant amount of the total program cost. Several reasons are offered in the thesis. Validation of the model indicates that it is a highly satisfactory estimator of total program is a highly satisfactory estimator of total program (4)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A019 947 13/8 12/2 15/5

MASSACHUSETTS INST OF TECH CAMBRIDGE OPERATIONS RESEARCH

A Hierarchical Approach to Production (U) Planning.

DESCRIPTIVE NOTE: Technical rept..

DEC 75 135P Cabbay, Henry;

REPT. ND. 1R-120

CONTRACT: N00014-75-C-0556, NG0014-75-C-0661

PROJ: NR-347-027, MIT-05P-82491

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Production, \*Logistics planning, \*Operations research, \*Economic models. \*Cost analysis, \*Research management, Froduction control, Theses, Inventory control, Decision making IDENTIFIERS: \*Organization levels, Production (4) (11) planning, Product costs. Management scienca

We begin this discussion with an analysis of the nierarchical framework discussed in Hax and Meal. 1975. After defining the different levels of the hierarchy we provide necessary and detailed models. hierarchy we provide necessary and detailed models. Several interpretations and consequences of these results are discussed. In addition, it is shown that planning horizons to insure consistency on a detailed level are intimately related to planning on an aggregate level. Although we cannot demonstrate the optimality of the approach of Hax and Meal. lower bounds are easily derived. For the remainder of the report, we do not consider the aggregate product structure of Hax and Meal. Instand, in a linear model, we aggregate all items together. Under a quite general cost structure, we are able to characterize optimal aggregate production which can be optimally disaggregated. The analysis is extended from the single to the multi-echelon case, we formalize some of the preceding notions and present a more general underlying theory. The aggregate characterization is closely related to properties of Leontief systems. In addition, a properties of Lecatief systems. In addition, a new characterization of Leontief Substitution Systems is presented. Finally, we extend the original problem to include both regular and overtime considerations and then fixed charges in production.(U)

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AD-A019 932 19/: 5/1

ARMY ARVAYENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS

Risk Analysis of the US Army 155mm Cannon-Launched Guided Phojectile Program. (U)

DESCRIPTIVE NOTE: Interes note. DEC 74 19P Netzlen.K tin . Jr: REPT. NO. AMSAR/SA/N-30

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Guided projectiles. \*Antillery ammunition. \*Cost analysis. Risk. Scheduling. Production. Uncertainty. Metworks. Statistical analysis
IDENTIFIERS: CLGB(Cannon Launched Guided Projectile). \*Cannon launched guided projectile. Vent network analyzen, Network analysis. \*155-mm (U) guided projectiles (U)

This analysis estimates the schedule and cost risks associated with the Arry 155mm Cannon-Laurened Guided Projectile (CiGP) development program. The analysis considered the Army CLGP program from 1 dancing 1975 to initiation of full scale production. Uncertainties were analyzed by simulating the program using a network format and recommendation over and schedule network format and representing cost and schedule as random variables. Statistics were obtained using the VERT network analyzer. The planned program schedule and costs were found to be close to those obtained from the network analysis. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A019 701 5/1

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INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA COST ANALYSIS

Military Cost Analysis in the FCRCs (Federal Contract Research Centers) - 1950-1975.

(u)

DCT 75 33F \*\* \*\*ZcCullough.James D. ;
REPT. NO. P-1171
MONITOR: IDA/HQ 75-18en2

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Department of Defense. \*Cost analysis. \*Contract administration. Cost estimates. Decision making. Organizations. Military planning. Military research (u)

The 16 organizations which were Federal Contract Research Centers (FCRCs) in 1969 are identified. The current list of 9, including are identified. The current list of 9, including the 4 which have Cost Analysis Groups (CAGS), is described by CSD category, 'CAG' is defined in terms of organizational structure and functions. The history and staffing of CAGs in the 7 FCRCs (of the 16) which have had CAGs is traced from 1950 through 1975. The role and contributions of the CAGs during three time periods—the 1950-60 period, the Hitch-MCNamara period of 1961-67, and the 1968-75 period—are discussed. Negative views by some members of discussed. Negative views by some members of Congress and the uniformed military of the FCRCs are analyzed as to possible causes and as to their impact on the FCRCs. The recent impact of this changing environment on CAGs is discussed. The results of an informal survey of the 4 CAGs is presented, including their o ganizational title, management, staff size, military clients, and planned military research program for FY 76.

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DDC REPORT BIFLIOGRAPHY SEARCH CONTROL NO. ZONOT

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Approach to the Estimation of Life Cycle An Approach to the Estimation of Life Costs of a Fiber-Cotic Application in Military AirCraft.

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DESCRIPTIVE NOTE: Master's thesis. SEP 75 163P YoGrath.John Michael: Michna.Kenneth Ralph:

# UNCLASSIFIED REPORT

DESCRIPTORS: \*fiber obtics. \*Obtical materials. \*Life cycle costs. %.litary aircraft. Signal processing. Caples. Cotical sevaguides. Light emitting crodes. Cost effectiveness. Waveguide couplers. Ontical glass. Economic analysis. Delphitecnniques. Forecasting. Theses. Attack bombers. Jet bombers. Avionics IDENTIFIERS: Optical fibers. ALGFT program. A-7E aircraft. A-7 aircraft

As significant technological advances in fiber optics and optical data transmission methods are being made. It is necessary to develop appropriate methods for estimating life cycle costs for alternative Coaxial/taisted pair wire and optical siternative coaxial/taisted pair wire and optical fiber avionics. Measures of effectiveness are suggested for each alternative system. An approach, which structures the technological and demand uncertalities of fiber optics, is developed through scenarios as a means of relating cost and effectiveness. It is suggested that Deiphi and experience curve techniques be used in conjunction with operations. experience curve rechniques be used in conjunction with ordered scenarios as a technological forecasting technique for estimation of life cycle costs of fiber optics. In addition, a review of the historical and technological background of fiber optics and their application to the Naval Electronics Laboratory Center (NELC) A-7 Airporne Light Optical Fiber Technology (ALDFT) Program is included.

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MASSACHUSETTS UNIV AMHERST GRADUATE SCHOOL

Capital/Labor Substitution and factor Price Ratics in a Military Service: A Study of Defense Resource Allocation.

DESCRIPTIVE NOTE: Doctoral thesis. AUG 75 103P Clark.Rolf H. :

UNCLASSIFIED REPORT

DESCRIPTORS: "Military budgets, "Cost estimates.
"Economic analysis, Military producement,
Manpower, Confidence level, Confidence limits,
Policies, Trade off analyses, Mathematical models. Naval planning, These IDENTIFIERS: \*Resource allocation.

Econometrics

While some analysts claim U.S. Defense systems should become more constal intensive to offset rising labor costs, other feel they are already too sophisticated for the Defense labor fonce. The research has three goals, which help clarify this division. First, capital/labor matics Indicators of Defense Officiency are Omiented within existing capital accumulation theory. Second, models are developed which are consistent with this theory. Third, the parameters of these models are estimated using U.S. Navy budget and models are estimated using U-S. Navy budget and asset data. An attempt is then made at synthesizing the two divergent viewpoints in light of the research models and findings. The findings include the following: (1) both Defense Capital and manpower costs are uncerestimated by approximately 30%, thus cost bias may be insignificant. The implications of upsetting this Delance through new policies such as a salary pay system are discussed. (2) Shifes togeth biother capital intensity are (2) Shifts toward higher capital intensity are evident in new systems, but Decause of the low and decreasing ratio of new to total defense handware, changes in overall capital labor ratios have reacted slowly. Finding (2) is presented by comparing substitution elasticity for new versus total systems, and forms the basis for synthesizing the two views on proper Capital accumulation.

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AD-4019 185 5/:

ASSISTANT SECRETARY OF DEFENSE (SYSTEMS ANALYSIS) WASHINGTON D C

Proceedings of the Annual Department of Defense Cost Analysis Symposium (3tm)
Held at Aircie. Vincinia on 22-25 September
1974 and Hosted by the Comptroller of the Air force.

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UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 8 Nov 73. AL-774 653.
DESCRIPTORS: \*Cost analysis. \*Department of Defense. «Weetings. Cost estimates. Management planning and control. Weapon systems. Personnel. Life cycie costs. Contracts

Contents: Relationships between the Congress and Department of Defense; Congressional Sugget and Impoundment Control Act of 1974; Cost data problems: Inflation Considerations in Meapur systems costs: Personnel costing: Design to cost (DTC) and life cycle cost (LCC) inclications: Operations and support costs: Acquisition cost estimating: Economic analysis and program evaluation.

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AD-A018 624 15/5

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Deadline Cost Model Study. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 75 20P Husson, Richard D. : Moeller.
Genald L. :
REPT. NO. AMSAR/SA/N-09

# UNCLASSIFIED REPORT

Vulcan air defense systems, M-551 vehicles

DESCRIPTORS: \*Army equipment. \*Cost analysis,
\*Logistics planning, Mathematical models,
Acquisition, Cost estimates, Life cycle costs,
Maintenance, Army planning, Logistics management,
Tanks(Combat vehicles)

(U)
IDENTIFIERS: Cost models, M-109 Howitzers(155mm), M-167 Vulcan air defense systems, M-163

The study develops a generalized model used to quantify the cost incurred by the Army when an equipment unit is deadlined. The force-level model developed used float factor, acquisition cost, service life, repair and maintenance cost, crew cost and an impact cost as inputs to develop sample deadline costs for the M551, M163, M167, and M109. A sensitivity analysis on these sample items indicated that the model has considerable stability and is not greatly sensitive to input estimation errors. (U)

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DOC REPOR! BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A018 526 15/5 5/1

RAND CORP SANTA MONICA CALIF

The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering.

(U)

DESCRIPTIVE NOTE: Interim rept..
SEP 75 55P Saumbusch.Geneese G.;
REPT. NO. R-1722-PR
CONTRACT: F44620-73-C-0011

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.

DESCRIPTORS: \*Value engineering, \*Design to cost.

\*Contracts. \*Government procurement. Military
procurement. Cost analysis

IDENTIFIERS: Fixed price contracts

(U)

This study examines the role that value engineering (VE) clauses may be expected to play in design—to—cost contracting. Encouraged by Armed Services Progurement Regulations incentives, contractor VE efforts are supposed to result in proposals for contract changes that reduce some aspects of the cost associated with developing, producing, or operating a particular item. While VE clauses have produced some savings, there have also been certain costs associated with the use of a complex contractual device. This report suggests that cost saving will be much more likely to occur with increased use of fixed—price contracting for discrete phases of development and production, along with more competition. Based on an analysis of past experience with VE clauses, the central conclusion of this study is that while the cost—saving intent of value engineering should be an essential ingredie: in design—to—cost strategy, the contractural clauses themselves will at best be marginally effective and may even hinder implementation of design—to—cost

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7 DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A018 308 5/3 14/1 9/2 AD-A017 761 1/3 15/5 9/2 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF TECHNOLOGY INC DAYTON CHIO INSTRUMENTS AND CONTROLS An Approach to Point of Sale System Acquisition Cost-Benefit Analysis. (U) RMS Cost Model User's Manual. (U) DESCRIPTIVE NOTE: Master's thesis,
SEP 75 65P Fleming, James Alexander . DESCRIPTIVE NOTE: Firal rept. Jun 74-Nov 75.
SEP 75 119P Kinchmer.James E. \*
CONTRACT: DAAJ01-74-C-0839
MONITOR: USAAVSCOM TR-75-2a UNCLASSIFIED REPORT UNCLASSIFIED REPORT DESCRIPTORS: \*Commerce, \*Cost analysis, \*Digital computers, \*Cost benefits, Electronic equipment, Department of Defense, Automation, Retail, Data acquisition, Interactions, Economic models, DESCRIPTORS: \*Helicopters. \*Maintainability. \*Cost analysis. \*Computer programs. Army aircraft. Maintenance. Spare parts. Maintenance personnel. Procurement, Theses
IDENTIFIERS: POS(Point of Sale Systems).
Point of Sale Systems, ECR(Electronic Cash
Registers), Electronic Cash Registers,
Commissaries, Supermarkets, Retail industry.
Automated supermarkets, Automated retailing. (U) FORTRAN, Inspection, Cost estimales, User needs. Computerized simulation
IDENTIFIERS: H-58 aircr. \*\*. OH-58 aircraft. RMS (u) computer program. Scenarios This manual provides a detailed description of the Electronic Point of Sale (U) cost input required to operate the RMS Cost model: the descriptions, flow-charts and source listings for the operation and maintenance cost computation subroutings: a complete source listing of Point of Sale (POS) Systems introduced into the retail and supermarket industries exemplify a change which is occurring in all data collection. Initial Department of Defense utilization of the RMS Cost program with annotations for RMS code modifications; and a sample of the cost-POS Systems is occurring in commissaries and exchanges, military counterparts of the supermarket and retail industries respectively. The purpose of (U) information tables. a POS System is to automate point of sale by replacing the electro-mechanical cash register with an electronic cash register (ECR) capable of some degree of interaction with the computer. This theris summarizes the diffuse literature on POS Systems through discussion of POS System development, components and configurations, and

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proposes a general cost-penefit model to assist in the POS System acquisition decision.

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AD-A017 760 1/3 15/5

TECHNOLOGY INC DAYTON OHIO INSTRUMENTS AND CONTROLS

Development of RMS Cost Model and Demonstration of Alternative CH-58

(U) Maintenance Scenarics.

DESCRIPTIVE NOTE: Final rept. Jun 74-Nov 75.

JUL 75 76P Clay, Larry E. ; Kirchmer.

JOL 75 769 C1ay,:
James E. :
REPT. NO. TI-069220-75-06
CONTRACT: DAAJ01-74-C-0839
MONITOR: USAAVSCOM TR-75-27

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Helicopters, \*Maintainability, \*Cost analysis, Army aircraft, Maintenance, Spare parts. Maintenance personnel, Inspection, Cost astimates, Computerized simulation IDENTIFIERS: H-58 aircraft, OH-58 aircraft, RMS computer program, Scenarios

For several years, the Army has employed the Reliability and Maintainability Simulator (RMS) computer program to simulate the operation and maintenance of helicopter fleets of up to 24 aircraft. However, since the basic RMS model did not include cost information, the economic consequences of changes in the maintenance procedures could not be projected, and the cost effectiveness of could not be projected, and the cost etractiveness contemplated reliability improvements could not be evaluated. Consequently, to remedy these deficiencies, the RMS model was revised and expanded to an RMS COST model by adding a cost computation to determine all operating and maintenance costs during the sixulation period. The resultant RMS COST model was demonstrated by executing a simulation of an OH-58 helicopter company with a baseline mission and maintenance system scenario and then with six alternative (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-A017 658

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STANFORD UNIV CALIF DEPT OF STATISTICS

A Difference Equation Approach to the Optimal Control of a Multiclass Queue with Discounted Costs.

(u)

DESCRIPTIVE NOTE: Technical rept.. MAY 75 21P Reed.Frank C.: REPT. NO. TR-168 CONTRACT: N000:4-75-c-0561. NSF-GK-35491 PROJ: NR-042-002

# UNCLASSIFIED REPORT

DESCRIPTORS: -Difference equations. +Oueueing theory. \*Cost analysis. Control. Costs.
Optimization. Algorithms. Theorems
IDENTIFIERS: Discounted costs. Customers (U)

This report considers the problem of dynamically selecting one of a finite number of customer classes to serve so that the total expected discounted cost over an infinite horizon is minimized. Decisions are allowed at the time of service completion, or if the serve is idle, at the time of customer arrival. It is assumed that customers arrive according to independent Poisson processes with different arrival rates for the various customer classes. Service times are independently distributed and identically distributed for customers of a given class. The cost structure is linear and includes Class-dependent holding costs, service costs, and rewards. Difference equations are used to derive a closed form expression for total expected discounted cost given the process begins with an arbitrary number of customers in each customer class in the queue and a non-preemptive priority discipline is used. (U)

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scenarios.

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A017 563

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ARMY ARMAMENT COSWAND ROCK ISLAND ILL COST ANALYSIS

First Destination Transportation Cost for Ammunition.

DESCRIPTIVE NOTE: Technical rept.. OCT 75 30P Baker, Robert L. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Ammunition, \*Transportation, \*Cost analysis, Regression analysis, Costs, Pradictions, (U) Decision making

This study provides predictive equations for total. second-leg, and interim first destination transportation (FDT) costs (FY 75 dollars) for ammunition items. The methodology employs regression analysis involving the independent variables of unit weight, unit volume, standard price, and their transgenerations. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A017 540

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

14/1

Equilibrium Analysis of Effects of a Price Change of an Input Factor in the Context of Input-Output System.

(U)

DESCRIPTIVE NOTE: Master's thesis. 76P SEP 75 Francisco.Clodualdo R. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Economic analysis. Equilibrium(General). Petroleum products. Labor. Energy. Consumers. Mcdels. Market research. Theses. Input. Output. Stability IDENTIFIERS: Prices

(U) (U)

This paper is an attempt to model the effects of Drice Change of a primary input factor into a segment of an economy. The primary input factor referred to is petroleum and the segment of the economy, the energy sectors. Labor is considered as a other primary input factor. Market equilibrium is assumed to be Stable and the disturbance caused by a price change in a primary input factor results in a new equilibrium state. Three approaches are made to define or specify this new state of equilibrium. Input-Output economics is the primary basis of all three approaches. Having analyzed and defined the new equilibrium state gave results that could serve as bases in making policy measures relative to the nature of the disturbance. (Author) (0)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT AD-A017 238 12/2

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Optimal System Allocations with Penalty (u) Costs.

DESCRIPTIVE NOTE: Research rept.. SEP 75 19P Derman, Cyrus ; Licberi Gerald J. :Ross, Sheldon M. ; REPT. NO. ORC-75-15 CONTRACT: NO0014-75-C-0781, DAHC04-75-G-0163 Derman.Cyrus :Licberman. PROJ: 'ARO-P-12549-# MONITOR: ARD 12549.7~%

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Construction. \*Co.ts. Reliability, Allocations, Mathematical models, Theorems. (U) Optimization IDENTIFIERS: •Allocation models

There are N stages to sequentially construct 1 successful components. At each stage, one allocates a certain amount of money for the Construction of zcomponent. If y is the amount allocated, then the component constructed will be a success with probability P(y), where P is a continuous nondecreasing function satisfying P(0) = 0.

After each component is constructed, one is informed as to whether or not it is successful. If. at the end of the N stages, there are i Components short, then a final penalty Cost C(i) is incurred. The problem is to, at each stage, determine how much money to allocate so as to minimize the total expected Cost (Construction cost plus penalty cost) incurred.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A017 222 19/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Independent Cost Estimate of the GAU-8 Aluminum Cartridge Case.

DESCRIPTIVE NOTE: Master's thesis (Final).
UUL 75 104P #all.Richard L.:
REPT. NO. GSM/SW/75S-10

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cartridge cases. \*Cost estimates.
Aluminum alloys. Fabrication. Contracts.
Configurations. Regression analysis. Theses (U) IDENTIFIERS: GAU-8 cartridge cases

An independent cost estimate (ICE) was made on anticipated buys of the GAU-8 30MM aluminum casing. The 'state of the art nature' of aluminum cased ammunition and the absence of historical cost data on similar items resulted in a multitechnique costing approach. An industrial costing approach, hased on process data independent of the based on process data independent of the Participating casing manufacturers, was used to estimate large quantity Contract buys. Statistical Cost estimation, using 20MM steel casing information as a data base, was used to formulate a cost estimating relationship which was then adjusted to reflect the anticipated difference between 20MM steel and 30MM aluminum casings. (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A017 125

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RAND CCRP SANTA MONICA CALIF

A Weapon-System Life-Cycle Overview: The A-7D Experience.

OCT 74 47P Nelson.J. R. :Dey.P. Konoske :Fiorello,M. R. :Gebman.J. R. :

Smith.G. K.; REPT. NO. R-1452-PR CONTRACT: F44E20-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: \*Attack aircraft, \*Life cycles.
Maintenance, Combat readiness. Avionics. Cost

analysis. Logistics support. Data acquisition IDENTIFIERS: A-7 aircraft. A-7D aircraft. +Life cycle costing

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This study focuses primarily on a Comparison of test-phase results with the subsequent operational experience of the A-7D attack aircraft to determine when component reliability and maintenance problems were revealed, what kinds of problems showed up in the various stages of the weapon-System life cycle, and the impact these problems had on operational availability and operating cost. It is found that earlier correction of critical problems should reduce operational and maintenance costs and increase the capability of the system enough to permit a net improvement in the overall Capability life-cycle cost of the system. An extended, comprehensive initial Operational Test and Evaluation would allow identification of additional reliability and maintenance problems. A Detter approach to development of avionics component; and related software is needed. Finally, data systems should be improved as necessary and exploited more fully.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7 5/1

AD-A016 962

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MARTIN MARIETTA AEROSPACE ORLANDO FLA

PWB Production Assembly Cost Guidelines

(11)

DESCRIPTIVE NOTE: Quarterly progress rept. no. 1. 26

Mar-31 Jul 75. JUL 75 122P Wendell R.:

Osborne.Sol C. : Hutchinson.

REPT. NO. OR-13826 CONTRACT: DAABO7-75-C-0029

UNCLASSIFIED REPORT

DESCRIPTORS: \*Printed circuits. \*Cost analysis. Costs. Assembly. Circuit boards. Manuals.

Production. Automation. Production engineering

A minimprinted wiring board (P#B) production cost manual was prepared identifying and describing representative sections of a manual for the program goal of providing guidelines enabling user to select and evaluate manual and automatic assembly methods. Assembly and cost data was obtained by surveys

defining PMBs and Assembly capabilities including Cost analysis models.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-4016 788 5/1 13/3

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN

(U) Construction Equipment Cost Guide.

DESCRIPTIVE NOTE: Final rept. OCT 75 108P Newly.E.;
REPT. NO. CERL-TR-P-52

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Construction equipment, \*Cost analysis. Contracts. Government procurement. Salaries, Rates, Gperators(Personnel), Contract administration, Economic analysis,

IDENTIFIERS: \*Construction management. \*Cwnership (U) costs

The purpose of this guide is to assist field pricing support personnel (estimators, negotiators, price analysts, auditors, etc.) in estimating construction equipment hourly ownership and operating rates. The guidance provided is in accordance with general concepts of the contract cost principles and procedures in Armed Services Procurement Regulations (ASPR Section 15) and Federal Procurement Regulations (FPR Part 1-15). The manual is intended for use in negotiated construction procurements which require an independent government estimate by regulation. The original construction contract is awarded as a result of an advertised procurement while contract modifications to advertised procurements are negotiated. The cost estimating concepts of these two procurement types are different. fus

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOSOT

AD-A016 626

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

AGMC LCC Model for Inertial Navigation Systems.

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DESCRIPTIVE NGTE: Final rept.. OCT 75 72P REPT. NO. AGMC-75-001 Weitzler.Thomas D. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Inertial navigation. \*Life cycle costs. Cost analysis. Computer programs. Mathematical models. Variables. Constants. Parameters. Logistics IDENTIFIERS: Cost of ownership. \*Life cycle costing

The purpose of this report is to document a mathematical model currently being used to evaluate the potential life cycle costs of inertial navigation systems. This model has the capability of isolating and analyzing logistics start-up costs. It also allows for inertial system subassembly analysis. The report includes definitions of all input and Output parameters. explanation of the equations. program listing with data deck description, and a (U) Sample run. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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ASPOSPACE GUIVANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION 2410

Avionics Proliferation: A Life Cycle Cost Perspective.

(U)

DESCRIPTIVE NOTE: Final rept., JUL 75 30P Thomas D.; REPT. NO. 4GMC-75-902 Genet .Russell M. :Meitzler.

# UNCLASSIFIED REPORT

Availability: Available in microriche only. DESCRIPTORS: \*Avionics, \*Li = cycle crats, \*Inertial navigation, Econor c aralysis. Cost effectiveness, Mil tery auchaft DESCRIPTORS:

The paper discusses choliferation and when it can occur. It specifically looks at the economic question of when can it be cost effective to use an existing military inertial navigation system for new aircraft rather than developing and using a new system. The discussion is from a life cycle cost viewpoint with particular attention to the 'start-up' costs. Attached with the paper is a complete reproduction of the input data and computer results

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures Volume II - Estimating Handbook and User's Manual. Part II.

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DESCRIPTIVE NOTE: Final rept. Jul 72-Feb 75. MAY 75 366P Ker CONTRACT: F33615-72-C-2083 PROJ: AF-1368 TASK: 1368C2 Kenyon.R. E.:

MONITOR: AFFOL

TR-75-44-Vo1-2-Pt-2

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A016 408.

DESCRIPTORS: \*Airframes, \*Cost estimates. \*\*Computer programs. Costs, Methodology, Trade off analysis. Cost analysis, Weight. Construction. Materials. Ribs. Spars. Coverings. Leading edges. Trailing edges. Perodynamic configurations. Computerized Simulation. Input. Time sharing. Data bases. User needs. Manuals.

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Tables(Data). Graphs
IDENTIFIERS: Cost estimating relationships. COSTC computer program

{ U }

This volume provides a detailed description of the function and use of two weapon system costing methodologies for aircraft airframes and basic structures developed for the Air Force Flight Dynamic Laboratory for use in conceptual and preliminary designs phases of weapon system development. The methods are a trade study costing method for detailed cost analysis of trades-off between weight, cost, type of Construction and type of material and a system costing method for determing the projected cost of a complete airframe within the context of a weapon system development. This volume describes now to make an estimate using either technique and shows the results of a demonstration case. Traceoff capability has been provided for a range of alternative structure and material combinations. A technique for independent assessing Complexity factor has been developed and demonstrated.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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GENERAL DYNAMICS/CONVAIR SAN DIEGO SALIF

Weapon System Costing Methodology for Aircraft Airtrames and Basic Structures. Volume II. Estimating Handbook and User's Manual. Part I.

DESCRIPTIVE NOTE: Final mept. Jul 72-Feb 75.
May 75 283P Kenyon.R. E.:
CONTRACT: F33615-72-C-2083

PROJ: AF-1368 TASK: :36802

MONITOR: AFFDL IR-75-44-Vol-2-Pt-1

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, Part 2, AD-DESCRIPTORS: \*Airframes. \*Cost estimates. Instruction manuals, Methodology, Trade off analyses, Weight, Ribs, Spars, Coverings, Leading edges, Trailing edges, Skin(Structural), Assembly, Fabrication, Systems analysis, Computer programs, Data acquisition, Data processing, Data bases. Files(Records), Cost analysis, Costs, Handbooks
IDENTIFIERS: ◆Cost estimating relationship

This volume provides a detailed description of the function and use of two weapon system costing methodologies for aircraft airframes and pasic structures developed for the Air Force Flight Dynamics Laboratory for use in conceptual and preliminary designs phases of weapon system development. The methods are a trade study costing method for detailed cost analysis of trades-off between weight, cost, type of construction and type of material and a system costing method for determining the projected cost of a complete airframe within the context of a weapon system deve opment. This volume describes how to make an estimate using either technique and shows the results of a demonstration case. Tradeoff capability has been provided for a range of alternative structure and material combinations. A technique for independent assessing complexity factor has been developed and demonstrated.

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GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Wathodology for Aircraft Airframes and Sasic Structures. Volume I. Technical Volume.

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DESCRIPTIVE NOTE: Final rept. dul 72-Mar 75. JUN 75 341P Ker CONTRACT: F33615-72-C-2083 PRDJ: AF-1369 TASK: 136802 Kenyon.R. E. :

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MCNITOR: AFFDL

TR-75-44-Vol-1

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. Part 1. AD-A016 409. DESCRIPTORS: \*Airframes. \*Cost estimates. Methodology. Trade off analyses. Assembly. Fabrication. Weight. Ribs. Spars. Coverings. Structural members. Skin/Structural). Leading edges. Trailing edges. Systems analysis. Fabrication. Computer programs. Data acquisition. Data processing, Data bases, Cost analysis. Costs

IDENTIFIERS: \*Cost estimating relationships

This volume provides a detailed description of the function and use of two weapon system costing methodologies for sircraft airframes and basic Structures developed for the Air Force Flight Dynamics Laboratory for use in conceptual and preliminary designs phases of weapon system development. The methods are a trade study costing method for detailed cost analysis of trades-off between weight, cost, type of construction and type of material and a sy tem costing method for determining the projected cost of a complete airframe within the context of a weapon system development. This volume provides a technical discussion of method development. Trackoff capability has been provided for a range of alternative structure and material combinations. A technique for independently assessing complexity factors has been developed and demonstrated. Manufacturing costs are Separately estimated for the primary elements of substructure: ribs. spars. covers. leading edges. trailing edges. tips. etc.

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DOC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO?

15/5 AD-A016 344 6/10

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Cost Prediction Models for Bringing Selected Air Force Logistics Command Facilities into Compliance with the Occupational Safety and Health Administration Standards.

DESCRIPTIVE NOTE: Master's thesis. 929 AUG 75 Surk, Dannie O. : Moeller. George H. REPT. NO. SLSR-39-758

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Buildings, \*Cost analysis. \*Cost estimates. \*Logistics planning. Theses.
Mathematical models. Air Force, Tables(Data), Safety, Industrial hygiene. Standards IDENTIFIERS: \*Occupational safety and health.

The purpose of the study was to ascertain if groupings of Air Force buildings, having the same or similar mharacteristics (as cascribed in real property r words) could be correlated into a mathematical model that would predict the costs necessary to bring buildings into compliance with standards as set by the Occupational Safety and Health Administration. Building characteristics from Air Force real property records (such as floor space, age, and function) were sorted and regressed against estimated costs obtained from an actual MAJCOM survey. The model shows that a correlation can be made between building characteristics and actual survey estimated OShA retrofit costs. Using similar models, budget estimates for renovation could be calculated for buildings with same or similar characteristics. Recommendations for future surveys are included.

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DOC REPORT BIBLIOGRAPHY SEARCH CONTPOL NO. ZOMOT

15/5 AD-A015 270

AIR FORCE 1951 OF TECH WRIGHT-PATTERSON AFB ONIO SCHOOL OF SYSTEMS AND LOGISTICS

Cost/Schequie Control System Criteria: An Analysis of Managerial Utility.

DESCRIPTIVE MOTE: Waster's thesis. AUG 75 131P Richard T. : Ostdiek. Marion A. :Estes. REPT. NO. SLSR-15-758

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Logistics planning. \*Weapon systems. \*Contracts. Government procurement. Management information systems. "Management planning and control. Theses
IDENTIFIERS: \*Logistics management, Utility (u) functions. Planning programming budgets (U)

The Cost/Schedule Control System Criteria (C/SCSC) is imposed on a contractor's management information system during the performance of a contract for a major weapon system. Previous studies on C/SCSC had identified managerial resistance to the Criteria. Data, gathered through structured interviews with military and contractor managers. was analyzed to fire if a predetermined set of attitudes affected the perceived utility of C/ SCSC. The selected variables of acceptance of quantilative techniques, cost consciousness. knowledge of quantitative techniques, and nierarchical position were studied as major factors influencing the perceived utility of the Criteria. Relationships between the selected variables were not supportive of all five stated hypotheses: however, the study provided detailed data on the selected variables and on C/SCSC as a management tool. After a review of the managers' opinions and the available data, a conclusion was reached showing that the criteria in its present form is not sufficiently productive for the project goals. The Study also indicates that a significant difference exists between military and civilian managers. The second secon

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Recommendations

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

14/1 AD-A016 262 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB CHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Appraisal of the Short-Term Cost Results of a Selected Number of Air Force Should Cost Studies.

DESCRIPTIVE NOTE: Waster's thesis.

AUG 75 85P Schaefer, William E.;

Birkhead, Roy F.; REPT. NO. SLSR-2-75B

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force procurement, \*Contracts, \*Cost analysis, Weapon systems, Costs. Logistics. Production engineering. Contract administration, Management planning and control. Theses
IDENTIFIERS: \*Should cost analysis. \*Contract

pricing, .Contract negotiations (U)

Should Cost briefly can be described as a technique of contract pricing which seeks to determine a realistic price objective which reflects reasonably achievable Economies and efficiencies of contractor operations. The Air Force has performed a number of Should Cost studies, each with the stated objective of achieving the desired results contemplated by the above definition. Has the Air Force achieved these results. Up to this point, this question has not been casily answerable since the final COST outcomes have not been available as a basis against which originally negotiated cost targets could be compared. Based upon a limited sample of four contracts which were negotiated using the Should Cost technique, the study showed that Should Cost, as used by the Air Force, may be producing results which are not more effective than those experienced from Contracts negotiated using conventional cost analysis.

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DDC REPORT BIGLIOGRAPHY SEARCH CONTROL NO. ZONO? 15/5

AD-A016 117 1/3

COBRO CORP SILVER SPRING MO

RWAC Analysis of CH-47 helicopter.

DESCRIPTIVE NOTE: Final rept. 1 Jul 74-15 Aug 75. AUG 75 72P CONTRACT: DA4J01-74-C-1025

MONITOR: USAAVSCOV TR-75-38

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Reliability. Maintainability. Availability and Cost (RMAC)

PESCRIPTORS: \*Helicopters. \*Reliability.

\*Maintainability. \*Cost effectiveness. Spare parts. Inventory control. Failure(Mechanics). Waintenance, Costs, Removal, Logistics, Army

aircraft
IDENTIFIERS: H-47 aircraft. CH-47 aircraft.

·Failure analysis

An in-depth analysis was made of the reliability. An in-depth analysis was made of the reliability, availability, maintainability and cost of the CH-47 helicopter. The study was based on available Army documentation of the A. B. and Coversions of the helicopter design: the record of component failures and recovals as reflected in the Army's RAMMIT Rajor Item Removal Frequency (MIRF) reports: the system mission and plan for use: the Disassembly and Inspection Reports cover of Disassembly and Inspection Reports Cover engineering assessment of removed fail( components: and the costs in material, labor and time stemming from removal/replacement of a component. The analysis was carried out using the Army's computerized 'Analytic Wethodology for System Evaluation and Control (AMSEC). together with spec'al techniques and algorithms which were devaloped as required. The report provides, for the System and for each component of each version. The current RWAC assessment: a cross-comparison between the three versions: an analysis of the impact on RMAC of changes in maintenance plans, or of different costs of mission failure: and an interpretation of DIR information as it bears on RMAC.

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DDC PEPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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ARMY NATICE DEVELOPMENT CENTER MASS

Uniform Ration Cost System - Summary

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DESCRIPTIVE NOTE: Final technical rept..
JUN 75 188P Richardson.R. P. tBrandler. Philip :Byrne.Robert U. :Duacon.Romald :

Rogozenski John E. . Jr: EPT. NO. NDC-fR-75-69-CR/SA REPT. NO. PROJ: 1-T-762724-AH-99-A

# UNCLASSIFIED REPORT

DESCRIPTORS: "Food dispensing, "Costs, Feeding, Military rations, Nutrition, Venu. Planning

methods for designing the food cost "..dax-

The objective of this study is to develop a uniform ration cost system (URCS) that is directly related to known consumer requirements and that includes provisions which make possible a more flexible food service management system. A comprehensive analysis of the current DoD ration cost system has been conducted, resulting in the identification of areas of potential improvement. One of these areas, the setting of an appropriate level of feeding for DoD, has involved a quantitative Comparison of food utilization in the military with that of comparable civilian organizations. The recommended URCS contains a Uniform Ration Law that incorporates a Cost-date standard (i.e., authorized ration cost as of a selected data). The URCS also provides a more flexible approach for formulating a new food cost index that is consistent with the cost-date standard, nutritional standards. and consumer acceptance considerations. The study describes mathematical programming and computer

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DDC REPORT SIELICGPAPHY SEARCH CONTROL NO. ZONO?

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ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS 0:4

Ammunition Cost Research: Medius-Bore Automatic Cannon Amounition.

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DESCRIPTIVE NOTE: Technical rept.. OCT 75 107F Gannon.Patrick (Georg Celestino inalal.Genaid (Kelener.Kathieen ) Gannon.Patrick :George. Riedesel.Paul REFT. NO. AUSAR-CPE-75-6

# UNCLASSIFIED REPORT

DESCRIPTURE: \*Amountion. \*Amounition components. ·Cost analysis. Automatic weapons. Cost estimates. Procurement. Production engineering. Statistical analysis

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IDENTIFIERS: \*Cost estimating relationships. \*Cost =coe!s

At the complete round level of detail. statistically valid cost estimating relationships (CER's) for independent parametric cost estimates of adminision investment costs have been difficult to Construct. The long life soan of amunition items reduces the number and range of data points available for a given weapon system class (e.g., tank main armament). To counter this problem, a research project has been undertaken to relate physical round performance to component cost innimers. Propellants, projectiles, etc.). The report for Redigratore automatic cun accunition represents the first of three reports resulting from this project. This report demonstrates now component-level CER's and cost models can be used to independently estimate amountion investment costs with such Greater statistical validity than has been obtained with past approaches.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A016 040

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Model to Predict Final Cost Growth in a Weapon System Development Program.

DESCRIPTIVE NOTE: Master's thesis. AUG 75 173P Babiarz.An Peteb W. ; Babiarz, Anthony S. ; Giedras,

REPT. NO. SLSR-49-758

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems, \*Cost analysis, Procurement, Costs, Risk, Uncertainty, Dalphi techniques, Mathematical models, Computer programs, Theses, Logistics, FORTRAN IDENTIFIERS: \*Risk analysis, FORTRAN 4 programming (U)

ful language

The increasing jost growth within the DoD military weapon system acquisition process has been the object of attention for many years. With limited resources and shrinking budgets a viable technique to monitor and control cost growth is needed. The reason for cost growth may be related to the elements of uncertainty within a development program. A conceptual model, previously developed to cope with uncertainties in a weapon system acquisition program, was used to determine its applicability for use in the present study. The model relates the concepts of entropy, information uncertainty and costs in an effort to predict final costs based on a measure of uncertainty. The measure of uncertainty is entropy, or a lack of order in the information available to the program manager. The model attempts to express final development cost as a ratio of initial cost estimates to program entropy.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A016 038 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Simulation of the Reparable Processing Procedures Applicable to Reliability Improvement Warranties.

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DESCRIPTIVE NOTE: Master's thesis.
AUG 75 216P Nixon.Harv Nixon.Harvey L. . Jr.: Hitchcock.Charles B. : REPT. NO. SLSR-36-758

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Logistics management. \*Cost analysis. Costs. Life cycles, Reliability, Maintainability, Mathematical models, Computer

programs. Theses. FORTRAN

IDENTIFIERS: \*Life Cycle costing. \*Reliability improvement warranty

The Reliability Improvement Warranty (RIW) concept is a procurement methodology which is rapidly being implemented in the United States Air Force. Effective use of this concept is contingent on expeditious movement of RIW Components between Air Force bases and the Contractor. Several reparable processing procedures have been used with varying degrees of success, but there is currently no established technique to aid in determining the optimum processing procedures. The authors conclude that a simulation model has been constructed which can be of assistance to the material manager and procurement officer in selecting an optimum reparable processing procedure.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A015 638 13/10

NAVAL SHIP ENGINEERING CENTER HYAITSVILLE MD SHIP CONCEPT DESICH DIV

The Impact of Ship Design Margins.

DESCRIPTIVE NOTE: Final rept. 1 May=1 Sep 75.
SEP 75 44P Hockberger.William A. SEP 75 44P
REPT. NO. 6112-082-75
PROJ: S4627
TASK: S452701 Hockberger.William A. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval vessels, \*Ship structural components, \*Cost effectiveness, Cost analysis, Computer aided design, Base lines, Load control, Displacement. Cost benefits
IDENTIFIERS: \*Design margins. DD07 model

The previously defined categories of Design and The previously defined categories of Design and Construction Margins and Future Growth Margins are discussed briefly, and a third major category. Assurance Margins, is introduced and discussed in more detail. The feasibility of reducing margins to reduce ship size and cost is examined. Following a brief discussion of certain significant aspects of a version of the NAVSEC DPS7 destroyer computer synthesis model and of the baseline ship used, the results of some computer studies of margin impacts are presented and interpreted. Chances in margins on space, weight. studies or mangin impacts are presented and interpreted. Changes in mangins on space, weight, vertical center of gravity and power (propulsion and electrical) are investigated and their impacts expressed primarily as changes in full load displacement and in acquisition cost. The effects of combinations of margins are illustrated, and attempts are made to explain the mechanisms by which interactions occur.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

15/5 AD-A015 624

NAVAL TRAINING EQUIPMENT CENTER ORLANDO FLA TRAINING ANALYSIS AND EVALUATION GROUP

Acquisition Cost Estimating Using Simulation.

DESCRIPTIVE NOTE: Final cept.. SEP 75 29P William F. . Jr: Okraski. Henry C. : Parrish.

REPT. NO. TAEG-TM-75-4

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Computerized simulation. Government procurement. Logistics support. Computer programming. Mathematical models. . Uncertainty

(U) IDENTIFIERS: ACES model

Acquisition cost estimates developed as single point values are. At best, misleading and, at worst, impossible to achieve. Single point estimates do not sufficiently reflect the assumptions, judgment or apprehensions of the estimator. This paper deals with a technique for incorporating uncertainty and risk into the acquisition cost estimating procedure such that the estimates are presented as a range of values, encorpossing engineering, manufacturing and values, encompassing engineering, manufacturing and logistic support estimates. The cost estimating model. a pragmatic application of simulation and classical cost estimating precedures. has been programmed in BASIC and is generalizable and exportable.

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AD-A015 517

ARMY AIR MOBILITY RESEARCH AND DEVELOPMENT LAB FORT EUSTIS VA EUSTIS DIRECTORATE

Army Helicopter Cost Drivers,

(U)

AUG 75 39P Reddick.Harold K., Jr; REPT. NO. USAAMRDL-TM-7. PROJ: DA-1-F-262209-AH-76

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Helicopters, \*Life cycles, \*Costs. Airframes, Acquisition, Maintenance, Spare

IDENTIFIERS: \*Life cycle costing

(u)

The objective of this investigation is to identify The objective of this investigation is to identi-the major high-cost areas, referred to as 'cost drivers', for Army helicopters. The helicopter life-cycle cost is divided into two major areas-acquisition and operating-for breakdown and examination. Acquisition costs, which include R and D and production, generally account for 25 percent of the life-cycle cost. The operating costs, which account for the remaining 75 percent, are examined in terms of maintenance and parts, personne;, and consumables. The helicopter is divided into major subassemblies such as rotor, transmission, and airframe, and each is examined in detail.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A014 950

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ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS DIV

Overhaul/Rebuild Cost Study ARMCOM Items.

(U)

DESCRIPTIVE\_NOTE: Technical rept. o MAR 75 47P REPT. NO. AMSAR-CPE-75-3

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Repair.
\*Maintenance. \*Logistics planning. \*Cost analysis. Economic models. Cost effectiveness. Ordnance.

Artillery, Fire control systems. Small arms. Fire control system components IDENTIFIERS: \*Overhaul. \*Rebuild. \*Ordnance items

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Major item historical overhaul/rebuild data. depot labor rates and overhaul cost estimating relationships (CER's) are tabulated in sufficient detail to allow the estimation of overhaul/rebuild cost for ARMCOM-managed items. Item classes addressed in this study are: (1) Artillery: (2) Fire control: and (3) Small arms.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A014 772 15/5 14/

JOINT AFSC/AFLC COMMANDERS' WORKING GROUP ON LIFE CYCLE COST WRIGHT-PATTERSON AFB OHIO

Analysis of Available Life Cycle Cost
Models and Actions Required to Increase
Future Model Applications. (U)

DESCRIPTIVE NOTE: Final rept. Mar-Dec 74.

JUN 75 70P Collins, Dwight E.;
MONITOR: ASD TR-75-25

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems. \*Life cycles. \*Cost estimates, Mathematical models. Logistics planning. Maintenance, Failure, Logistics support. Accounting
IDENTIFIERS: Life cycle costs (U)

The report presents the results of an effort to survey existing life cycle cost (LCC) models and to gain insight into what actions are needed to increase their use. Eight categories of LCC models are defined: accounting models, economic analysis models, cost estimating relationship models, reliability improvement cost models, level of repair analysis models, maintenance manpower planning models, inventory management models, and warranty models. The report includer an analysis of experience to date, deficiencies and potential applications of representative models within each category. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A014 387 5/3 12/

KARLSRUHE UNIV (WEST GERMANY)

Isoquants of Continuous Production
Correspondences. (U)

75 9P Bol.G. : Moeschlin.O. :

# UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics
Quanterly. v22 r2 p391-398 Jun 75.

DESCRIPTORS: "Set theory. "Industria! production.
"Costs. "Topology. "Economics.
"Mapping(Transformations). Input output
processing. Wathematical models. Vector analysis.
Efficiency. Reprints
IDENTIFIERS: Insoquants

Bol has discussed consequences of the continuity of production correspondences in connection with relations between efficient input and output vectors. Issuants of continuous production correspondences are used here to extend this work. Simplifications to existing theory are discussed. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A014 385 15/5 14/2 5/1 MONTREAL UNIV (QUEBEC) DEPARTEMENT D'INFORMATIQUE

Periodic Replacement with Minimal Repair at (U) Failure and Adjustment Costs.

> 75 139 Tilquin.C. ;Cleroux.R. ;

# UNCLASSIFIED REPORT

**人们上海和邓亚亚区 报刊** 

Availability: Pub. in Naval Research Logistics Quarterly, v22 n2 p243-254 Jun 75. DESCRIPTORS: -Replacement theory, +Cost effectiveness, \*Maintenance management, \*Repair, Reliability, Optimization, Operations research, Failure(Mechanics), Naval research, Peprint IDENTIFIERS: \*Adjustment costs

An investigation is made of periodic replacement policies with minimal repair at failure, thereby, minimizing the average expected cost per unit time over an infinite time span. The standard cost structure is modified by the introduction of a term which takes adjustment costs into account.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMC7

AD-A014 382 5/3

DEFARTMENT OF THE INTERIOR WASHINGTON D C

(U) The Static Theory of Transfer Pricing.

> 162 75 Enzer Hermann :

# UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v22 n2 p375-389 Jun 75.
DESCRIPTORS: \*Economics, \*Management planning and control, \*Cost analysis, \*Cost effectiveness. \*Commerce. Industrial production. Lagrangian functions. Reprints
IDENTIFIERS: Profits. \*Decentralization. (U) \*Transfer pricing (U)

An analysis of the literature of transfer pricing is presented. It is shown that, under assumptions that the firm and its divisions have full deterministic knowledge of their costs and demands. some form of average cost is the appropriate transfer price. What happens when a firm adopts an objective other than profit maximization is further examined. (Author)

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UNCLASSIFIED UNCLASSIFIED DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO7 DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07 AD-A014 349 14/1 16/4 9/2 15/7 AD-A014 319 15/5 5/1 GENERAL RESEARCH CORP SANTA BARBARA CALIF MANTECH OF NEW JERSEY CORP ROCKVILLE MD Cost Estimating Study, an Abstract of Activities Performed in 1974. Executive Summary of the Navy Weapon System Life-Cycle Cost Model (WSCOV). (U) (U) DESCRIPTIVE NOTE: Rept. for 1 Jan-31 Dec 74.
FEB 75 6P Flueckiger.W. D.;
REPT. NO. CR-1-519
CONTRACT: NO0014-72-C-0311 DESCRIPTIVE NOTE: Executive summary.

JUL 75 9P Wood.Stephen Wood.Stephen S. : UNCLASSIFIED REPORT UNCLASSIFIED REPORT DESCRIPTORS: \*weapon systems. \*Life cycles. \*Cost analysis. Cost estimates. Management planning and control. Logistics planning. Navy IDENTIFIERS: Project management DESCRIPTORS: \*Cost estimates, \*Cost analysis, \*Guided missiles, \*Naval tactical data systems, \*Naval operations, Resources, Parametric analysis, Computer programs, Computers
IDENTIFIERS: \*Navy tactical missiles (U)

This report summarizes the cost estimating/cost analysis activities performed for the Office of the Chief of Naval Operations, Systems Analysis Division. Resource Analysis Group. Cost estimating and analysis was provided for Navy tactical missiles and tactical data processing hardware and software. (U)

The Navy Weapon System Life-Cycle Cost Model is a generalized user-oriented cost model that calculates and displays System costs in

(WBS) or similar hierarchal cost level scheme. It is applicable to any development program in which

changes in cost-related parameters. The model is intended for use by a cost analyst.

Costs must be monitored and recalculated for frequent

accordance with a Work Breakdown Structure

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A014 209

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NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CALIF

An Approach for Measuring Benefit and Cost (11) in Management and Information Systems.

SCRIPTIVE NOTE: Final rept., OCT 74 58P DiGialleonardo,Frank R.; Barefoot,David B.; DESCRIPTIVE NOTE: REPT. NO. NPRDC-TR-75-21

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Management information systems, \*Cost analysis, Manpower, Planning, Decision making, Mathematical models. Systems analysis. Information theory

A technique is developed for assessing benefit and, to a more limited degree, cost in order to permit meaningful cost-benefit analysis of management and information systems. The technique is most immediately a response to requirements in analyzing a large and complex manpower planning and programming system. It is more generally a response to an apparent gap in existing cost benefit methodology in regard to obtaining useful performance measures in managerial information systems. A model with three prime determinants of berefits is postulated: Potential contribution. Received value, and Utilized value. Other candidate factors are also considered, notably feedback. A methodology for costing inputs and outputs is also developed as an important Complement to the benefit measures.
Analysis results are presented for preliminary data gathered via a questionnaire, Alternative models for considering the measures are discussed. A plan for detailed analysis of the model using extensive data now being collected, in addition to proposed laboratory experimentation, is presented.

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 14/1

AD-A014 108

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AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION CHIC

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (5th) Held at Recondo Beach, California On 19 November 1974.

(U)

DESCRIPTIVE NOTE: Final rept.. NOV 74 80P REPT. NO. AGMC-74-046 Stauffer.Russell B. :

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 19 Aug 74. AD-787 220.
DESCRIPTORS: \*Inertial systems. \*Life cycles. \*Cost analysis. \*Meetings. Inertial navigation. Costs. Budgets. Logistics. Spare parts. Management planning and control. Acquisition. IDENTIFIERS: \*Design to cost

These proceedings describe the activities of the fifth quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held 19-21 November 1974. The proceedings contain the text and slices (where available) of the invited papers and the results of sub group meetings on Charter revisions, creation of LCC Task Group descriptive paper and preparation of input/output specifications for the LCC model under development.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A013 926 15/5 5/:

AIR FORCE AVIONICS LAB WRIGHT-PATTERSON AFB OHIO

Cost-Estimating Relationships Using Linear, Log-linear and Non-linear Regression.

DESCRIPTIVE NOTE: Final rept. Aug 74-Jan 75, APR 75 19P Bilikam.J. E.; REPT. NO. AFAL-TR-75-43

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTF: See also report dated Feb 74, AD-781 132.

DESCRIPTORS: \*Cost estimates. \*Regression analysis.
Radar, Inertial navigation, Computers.

Maintenance, Avionics (U)

IDENTIFIERS: \*Cost estimating relationships, Log
linear density functions (U)

The report addresses the use of weighted regression for linear cost estimating relationships and non-linear regression for log-linear cost estimating relationships with the trends in residual distributions. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-AQ13 802 15/5 5/1

DIRECTORATE OF AEROSPACE STUDIES KIRTLAND AFB N MEX

Handbook for the Implementation of the Design to Cost Concept.

DESCRIPTIVE NOTE: First rept..
FEB 75 104P Anderson.Richard H.:Dixon.
Thomas E.:
REPT. NO. SA-TR-75-2

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Government procurement. \*Cost analysis. \*Management planning and control. Systems analysis. \*Mathematical models. Reliability. Cost effectiveness. Probability (U) IDENTIFIERS: \*Design to Cost. \*Project management (U)

This report documents various models and methodologies in the form of a practical handbook of management tools. These management tools provide a system Program Manager with the means to do the following on a day-by-day basis: (1) Evaluate Current system progress: (2) Identify problem areas associated with various subsystems where Corrective actions or additional subsystem options are required: (3) Identify subsystems for which a reduction in performance has a small effect on total system performance and investigate if these subsystems can be replaced by lower cost subsystems with the cost savings invested more effectively in the improvement of other more critical subsystems: (4) Select the combination of subsystem options yielding the maximum total system performance achievable at the Design to Cost goal. i.e. optimal allocation of resources: and (5) Evaluate the effect of any proposed change in system design and its impact on Design to Cost goals.

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A013 711

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ARIZONA HEALTH PLANNING AUTHORITY PHOENIX

A Mean Cost Approximation for Transportation Problems with Stochastic Demand,

(U)

4 8P Wilson.Dan;

# UNCLASSIFIED REPORT

Availability: Pub. in Naval Logistics
Quanterly, v22 n1 p181-187 Mar 75.
DESCTIPIORS: \*Stochastic processes, \*Operations
researc1, - "est analysis, Transportation.
Approx.mation(\*\*" "hematics), Models.
Algorithms, Cost: Boundaries, Reprints (U)

Among the many tools of the operations researcher is the transportation algorithm which has been used to solve a variety of problems ranging from shipping plans to plant location. An important variation of the basic transportation problem is the transportation problem with stochastic demand or stochastic supply. This paper presents a simple approximation technique which may be used as a starting solution for algorithms that determine exact solutions. The paper indicates that the approximation technique offered here is superior to a starting solution obtained by substituting expected demand for the random variables. (Author)

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DDC REPORT BIBLIEGRAPHY SEARCH CONTROL ND. ZOMOT

AD-A013 579 17/7

MITRE CORP WOLEAN VA

Airport Surface Traffic Control Systems Development Analysis - Expanded.

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DESCRIPTIVE NOTE: Final cept. Jan 73-Feb 74.

MAR 75 115P Bales.R. A. :Koetsch.J.

CONTRACT: DOT/TSC-RA-73-11

MONITOR: FAA-RD.TSC 75-51.FAA-74-26

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Jan 74. AD-773 699.

DESCRIPTORS: \*Airport radar systems. \*Cost analysis. \*Air traffic control terminal areas. Airports.

Benefits. Deployment. Surveillance. Search radar. Plan position indicates and indicates an

radar. Plan position indicators. Display systems. Traffic. Runways. Taxiways. Visibility.

IDENTIFIERS: \*ASTC(Airport Surface Traffic Control). \*Airport Surface traffic control. Benefit cost analysis. DOT/5L, DOT/4CZ/

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A previous MITRE Technical Report. Airport
Surface Traffic Control Systems Deployment
Analysis. FAA-RD-74-6. presented an analysis of
ASTC (Airport Surface Traffic Control)
System requirements and developed estimates of the
deployment potential of proposed ASTC system
alternatives for 19 air carrier airports. The
primary requirement was determined to be improved
surveillance which resulted in an estimated
deployment of one of two surveillance systems at 16
airports by 1980. This report presents an expansion
of that deployment analysis to include a total of 39
air carrier airports. The methods and assumptions
for the deployment analysis of the 20 airports
presented in this report are essentially the same as
in the initial report. The overall result of the
analysis is that by the initial deployment date
(1976-1980) of the two alternative surveillance
systems.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTRO. NO. ZOMOT 19/6

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS OFFICE

Cost-Effectiveness Comparison of the Retubed M114 and XM198 Cannon Systems.

DESCRIPTIVE NOTE: Final note. MAR 75 17P Frederick U. : DeArmon, Ira A. ; Northey, REPT. NO. SAO/N-19

## UNCLASSIFIED REPORT

19/1

DESCRIPTORS: \*Horitzers. \*Artillery ammunition. \*Cost offectiveness, Gun barrels, Firing tests(Ordnance), Targets
IDENTIFIERS: M-198 howitzers(155-MM), XM-198
howitzers(155-MM), M-114 howitzers(8-In.). (U)

A comparison was made of the ammo cost on the basis of A Division Force Equivalent (DFE) per combat day in Europe and Korea using the retubed M114 and using the XM198. Results were determined for three conditions, i.e., (1) using the most cost-effective projectiles (all calibers), (2) using 8-inch projectiles only for targets beyond the range of 155mm, and (3) when the 8-inch ICM projectile was unavailable.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A013 514 19/6 19/1 14/1

ROCK ISLAND ARSENAL ILL GENERAL THOMAS J RODMAN LAB

Life Cycle Time and Cost Estimates for Squad Automatic Weapon System Candidates.

392P JAN 75 Schwedler.R. F. : RIA-R-TR-75-030

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Automatic weapons. \*Squad level Organizations. . Cost estimates. Life cycles. Time. Scheduling, Small arms, Small arms ammunition. Trade off analyses, Prototypes, Fabrication. Industrial production. Pata bases. Rifles. Machine guns. Cartridges. Management planning and control. Costs IDENTIFIERS: \*SAWS(Squad automatic weapon system). -Squad automatic weapon system program. Fabrique nationale weapon. 5.56-rm cartridges. 6.00-mm cartridges. 7.62-rm cartridges. XM-235 weapons. M-732 weapons. W-16 rifles(5.56-rm), M-732 weapons. W-16A1 guns(5.56-rm).
M-14 guns(cal .30). M-14A1 guns(Cal .30). M-14A1 guns(Cal .30). (U) .30). \*Life cycle costs

This report documents for future reference the This report documents for future reference the steps taken to prepare Life Cycle Cost and Schedule Estimates for the Squad Automatic Weapon System (SAWS) Program. All costs are given in FY75 dollars. The body of the report addresses a program which remains in Advanced Development from FY75 until FY77. The period encompassing FY77. FY78 and FY79 is the time frame for Engineering Development. This is followed by a 12 month Ligited Production period and a subsequent Full Scale Production period. The Appendix gives the detailed Cost and Schedule Estimates from which the final Trade Off Determinations and Program Costs were derived. Five weapon mechanism concepts and six types of ammunition are approached in a variety of Combinations. (Author)

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Gun modification

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A013 477

15/5 13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.

DESCRIPTIVE NOTE: Master's thesis. 812 Adityavarna, Georgius Wirawan : JUN 75

UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval shore facilities. \*Cost effectiveness. \*Patrol Craft. \*Maintenance management. \*Naval planning. Indonesia. Naval vessels. Naval logistics. Repair. Logistics planning. Cost estimates. Theses IDENTIFIERS: \*Logistics management

Indonesian naval patrol vessels which are operated in the waters of the Riau Islands (East of Sumatra) must return to their home base at Sumabaya for their periodical maintenance and repair. Establishment of a naval base in that area that can provide maintenance and repairs to the patrol vessels could save the time and cost lost in steaming the distance to Sumabaya and return. Three prospective sites were considered for potential development as a naval base. From these three sites six alternative base systems were developed. A cost-effectiveness methodology was used for selecting the preferred alternative. The result of the analysis indicated that upgrading the existing facilities at Tanjungpinang to a naval station without maintenance and repair facilities and performing the maintenance and repair of the naval patrol vessels at Surabaya is the most costeffective base system among the alternatives (U) considered.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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ARMY ELECTPONICS COMMAND FORT MONMOUTH N J

Life Cycle Cost Wodel.

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DESCRIPTIVE NOTE: Final rept.. JUL 75 39P 0
REPT. NO. ECOM-4338
PROJ: DA-1-S-762707-D-437
TASK: 1-S-763707-D-43707 Otto. Thomas W. . Jr:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates. \*Cost analysis. \*Radic equipment. Life cycles. Learning curves. Communication and radio systems. Army procurement. Management planning and control. Mathematical models. Computer programs. Tactical communications. Costs

IDENTIFIERS: • Life cycle costs

(U)

Recent experience in performing Life (/cle Cost Analyses on single channel tact cal radio equipment has shown the need for a complete and computerized LCC modei. This report discusses such a model which has been developed by the author. The cost categories and each of their elements are Eresented initially in broad terms: then the mathematical equations which compute each element are presented. Additionally, a comprehensive discussion of the Learning Curve and various methods of applying it are presented. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A013 362 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Overview of DoD Policy for and Administration of Independent Research and Development.

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DESCRIPTIVE NOTE: Final rept.,
MAY 75 164P Bethel, Howard Emery :
REPT. NO. DSMS-PMC-75-1

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Research management. \*Industrial research, \*Costs, Allocations, Department of Defense, Policies, Technology, Law. Military procurement, Cost analysis, Patents
IDENTIFIERS: #Independent research and development. (U) Contractors (u)

Independent research and development (IR/C) is contractor initiated and conducted research and davelopment effort not sponsored by a contract or development effort not sponsored by a contract or grant. The DOD recognizes IR/D as a normal cost of business and accepts its reasonable and allocable share of these costs. The allowability of IR/D costs and DOD policy and administration of this area have been and are controversial. This report presents an overview of DOD IR/D policy and administration. The evolution, current status. report presents an overview of DOD IR/D policy and administration. The evolution, current status, and major areas of existing controversy are highlighted. Current DOD policy appears to be a reasonable balance of the needs for good stewardship of the taxpayer's funds and the needs for a strong technological base. Major shifts in policy, whether to the mone liberal extenses advected by the to the more liberal extremes advocated by the industry or the more restrictive extremes advocated by Senator Proxmire and Admiral Rickover. would probably be detrimental to the best interests of the Department of Defense.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A013 258

RAND CORP SANTA MONICA CALIF

Parametric Equations for Estimating Aircraft Airframe Costs.

(U)

MAY 75 120P Large.Joseph P. : Campbell. Harry G. :Cates.Cavid : REPT. NO. R-1693-PA/E CONTRACT: DAHC15-71-C-0220

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Feb 72. AD-A012 091. DESCRIPTORS: \*Airframes. \*Cost estimates. Scientific research, Labor, Manufacturing, Engineering, Tools, Flight testing, Regression analysis, Accounting, Computer applications (U)

A set of generalized equations for estimating development and production costs of aircraft airframes on the basis of such characteristics as aircraft weight and speed is presented. (Extensive investigation has shown that these characteristics expl-in cost variations better than any other objective parameters.) Equations derived by multiple-regression techniques are presented for each of the major cost elements, for total program cost, and for prototype development costs. The report explains the derivation of each equation and describes the treatment of the data, the fitting of regression equations, and selection of preferred equations. A detailed numerical example is included which applies to preferred equations and compares t results to those obtained using severa: sets of alternative equations. 15 (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A013 221 14/1 9/1 20/6

NAVAL ELECTRONICS LAB CENTER SAN DIEGO CALIF

A-7 ALOFF Loonomic Analysis Development Concept.

DESCRIPTIVE MITE: Technical document,
JUL 75 73P Ellis,d. R. :Greenwell.R.

REPT. NO. NELC/TD-435 PROJ: WF41-X1, NELC-F228 TASK: WF41-X1-001

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Fiber optics transmission lines. \*Avionics. \*Cost analysis. \*Cost effectiveness. Fiber optics, Economics. Life cycles, Light emitting diodes. Photod@tectors. Attack bombers. det bombers, Digital systems, Signals, Multiplexing, Data transmission systems, Transmission lines, Electric Cables, Interfaces (u) IDENTIFIERS: A-7 aircraft, ALOFT project. ALOFT(Avionics light optical fiber technology).
Avionics light optical fiber technology. Economic (U) analysis

The economic analysis plan will establish the Costs and benefits of applying future fiber optic technology to avionic cabling. component descriptions, interface requirements, and the signal list for the A-7 (ALOFT) system are included to provide the necessary background to perform the according analysis. (Author) economic analysis. (Author) (U)

AC SUBJECT TERMS: M--(U)COMPRESSION TEST. STRESS STRAIN DATA, ALUMINUM ALLOYS, 2024-T3510. 6061-T6, ARMOR, MODULUS OF ELASTICITY, POISSONS RATIO, PLASTICITY, TENSILE YIELD STRENGTH, 22 C, HARDNESS.; TAC SUBJECT TERMS:

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONO?

15/5 AD-A013 171 5/9

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Air force Human Resources Laboratory Military Personnel Costing Conference.

(U)

DESCRIPTIVE NOTE: Final rept. Jan 73-May 74.
DEC 74 49P Baran.H. Anthony: DEC 74 49P 82
REPT. NO. AFHRL-TR-74-106
PROU: AF-1124
TASK: 112403

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Proceedings of Conference Held 2-3 May 1973 at the AFHRL Advanced System Div.. Wright-Patterson AFB. Chio. DESCRIPTORS: \*Cests. \*Military personnel. \*Meetings. Life Cycles. Systems engineering. Logistics support. Budgets (U)

The conference was the initial step in an P and D project to develop and demonstrate a family of techniques to generate Standard personnel cost data for use in: (1) Weapon system design Engineering: (2) weapon system life cycle support Operations: and (3) personnel/manpower budgeting. It was organized to provide technical guidance in directing the efforts of this project.
Representatives from various organizations within Air Force Headquarters. Tactical Air Command. Air Force Systems Command. Air Training Command. Air Force Logistics Command, and the United States Naval Research Laboratory comprised the membership. The objectives were: (1) identify and summarize the various concepts and practices of personnel costing and how they relate to system engineering design, system support, and various Command level personnel, manpower, and budgetary activities: (2) identify the 'users' of personnel cost data, their present requirements and uses for it, and their desires for new types or formats of such data: (3) ascertain what has been accomplished by other agencies that could be adapted to satisfy in part/whole the requirements identified in objective 2 and identify work currently in progress which might be applicable: 

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UNCLASSIFIED DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20907 DOC REPORT SIBLIDGRAPHY SEARCH CONTROL NO. ZOMO? 5/3 AD-A012 809 21/4 13/10 AD-A012 807 2:/4 13/10 NATHAN (ROBERT R) ASSOCIATES INC WASHINGTON D C NATHAN (ROBERT R) ASSOCIATES INC WASHINGTON D C Patroleum Transportation Systems Study. Chapter III. Port Costs. Metroleum Transportation Systems Study. Chapter V. Refinery Operating Costs. (U) (U) DESCRIPTIVE NOTE: Final rept. DESCRIPTIVE NOTE: final mept.
APP 75 31P /PR 75 173P
CONTRACT: DACW31-73-C-0051
MONITOR: IMR Paper-75-P2 APP 75 31P CONTRACT: DACW31-73-C-005: MCNITOR: INR Paper-75-P4 UNCLASSIFIED REPORT UNCLASSIFIED REPORT SUPPLEMENTARY NOTE: Supplement to DOT Report: 'Economic Aspects of Refinery and Deepwater Port Location in the United States'(PB-236 70) through SUPPLEMENTARY NOTE: Supplement to DOT Report:

'Economic Aspects of Refinery and Deepwater Port Location in the United States' (PB-236 701 through Location in the United States (RB-236 701 through PB-236 705). See also Chapter 4, AD-A012 808.

DESCRIPTORS: \*Petroleum industry. \*Marine terminals. \*Refineries. \*Cost analysis. Systems analysis. Economic models. Costs. Fetroleum products. Production engineering, Profits
IDENTIFIERS: Crude oil, Cost models, :Despuster (U) terminals, Pipeline transportation, Industry ters productivity

This part of the study presents the basic analysis of refinery operating costs in the various petroleum refinery districts to be supplied with imported crude PS-235 7051. See also Chapter 2. AD-A012 806 and Chapter 4. FD-A012 808.

DESCRIPTOPS: \*Petroleum industry. \*Marine terminals. \*Refineries. \*Cost Bralysis. Systems analysis. Costs. Contraction. Marine transportation.

Pipelines. Refineries
IDENTIFIERS: Crude Oil. Transshipment costs.
Cost models. \*Deepwater terminals

This part of the study presents the basic analysis or deepwater port Construction and operating costs for crude oil. (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A012 795

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ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

The Application and Utility of Independent Government Cost Estimates.

DESCRIPTIVE NOTE: Final rept. OCT 74 53P Corre OCT 74 53P REPT. NO. APRO-103-4 Correia, Charles A. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates, \*Contracts, \*Army procurement, Statistical analysis, Assessment, Cost analysis, Policies, Department of (U) IDENTIFIERS: IGCE's(Independent government cost estimates), \*Independent government cost estimates, Contractor estimates, Government price

objectives, Negotiated price, Contracting officer

This report concerns the policy and usage of Independent Government Cost Estimates (IGCE's) throughout the US Army Materiel Command's (Alu) major subordinate commands. A statistical analysis of a representative sample of production contracts is made comparing IGCE's, contractors' estimates, Government's price objectives and negotiated prices. The study objectives are to determine the influence of IGCE's objectives are to determine the influence of loce's on the price analysis/cost analysis estimates which are used to determine the Government's initial price objective; assess the relationship between the IGCE's and the contractors' proposed price; and determine the most effective method of using the IGCE in the contract cost estimating process. Based upon the analysis and interview with preparers and users of ICE's, recommendations are ade concerning policy and use of IGCE's within (u) AMC. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A012 635

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15/5 13/8

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER BETHESDA

The Possible Application of Numerically Controlled Manufacturing to Navy Supply System Procurement.

(0)

DESCRIPTIVE NOTE: Final rept..

DEC 74 46P Redding
Bradford M.:
REPT. NO. NSRDC-4600
PROJ: F53-531
TASK: F53-531-005 Redding. John L. : Smith.

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Machine tools. \*Production engineering. \*Cost analysis. \*Naval procurement. Standardization, Inventory control, Naval equipment. Naval vessels IDENTIFIERS: Numerical control

The study assesses the potential binefits which could be derived by the Navy Ships Parts Control Center (SPCC) by including numerically controlled (NC) machine tool parts programs and documentation with a standard technical data package in the procurement of hard-to-get parts. Parts analyzed were those for which a purchase request had been outstanding for more than 120 days and for which no purchase action had yet taken place. The benefits investigated in this study were the possibilities of requiring in cost and procurement. possibilities of reduction in cost and procurement time which could be directly gained by SPCC by using NC technology. The study shows that the procurement problems for the hard-to-get parts and the parts program transfer problems are such that Currently it would not be profitable for SPCC to include NC parts programs and documentation with standard technical data packages: thus no direct reduction in procurement time or cost could accrue to SPCC at this time from the use of numerical control technology.

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PAGE 311 AD-A012 636

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A011 643

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RAND CORP SANTA MONICA CALIF

Estimating Life-Cycle Costs: A Case Study of the A=70,

Fiorello.Marco:

FEB 75 71P F16 REPT. NO. R-1518-PR CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: \*Air force procurement, \*Attack aircraft, \*Cost analysis, \*Logistics planning, Acquisition, Forecasting, Cost estimates, Weapon

systems
IDENTIFIERS: \*Life cycle costing. A-7 aircraft.
A-7D aircraft, Logistics management, Force structure planning

The report is concerned with the determination of costs incurred in acquiring and owning a weapon system and the data problems associated therewith. Incurred or historical costs can be used to anticipate future costs of operations and support, to anticipate future costs of operations and support, to compare forecast with incurred costs for evaluating forecasting techniques, or to estimate a weapon system's total life cycle costs (LCC) for use, along with the associated weapon system capability, in force structure planning. The principal objective of the study is to demonstrate the derivation of the life-cycle cost.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A011 401 5/1 15/5 9/2

ARMY AVIATION SISTEMS COMMAND ST LOUIS NO SYSTEMS ANALYSIS

Users Manual: Forecast of Schedule/Cost Status Utilizing Cost Performance Reports of the Cost/Schedule Control Systems Criteria: A Bayesian Approach (FORTRAN

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DESCRIPTIVE NOTE: Technical rept.. MAR 75 32P Barkley.Mark E.: REPT. NO. AMSAV-D-75-2 MONITOR: USAAVSCOM TR-74-60

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Jan 73. AD-754 576. DESCRIPTORS: \*Cost estimates. \*Contracts.

\*Department of Defense. Forecasting. Decision making. Scheduling. Bayes theorem. Computer programs. FORTRAN. Statistical analysis. Logistics

planning IDENTIFIERS: Bayesian estimation. FORTRAN 4 Programming language

This report presents a computer program of the Bayesian approach to forecasting cost and schedule per urmance by work breakdown structure as reported by Department of Defense (DOD) contractors. The technique uses the data from a DOD contractor Cost Performance Report as furnished to the Government under the Cost/Schedule Control

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Systems Criteria.

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AD-A011 376 9/2

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CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF

Cost Tradeoffs Between Local and Remote

(u)

PROJ: NR-049-345

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Pub. in Computer Communication Networks, p469-480 1975. DESCRIPTORS: \*Communications networks, Centralized. Cost effectiveness. Message processing IDENTIFIERS: \*Computer networks, Centralization, Benefit cost analysis, Network analysis theory (u)

A major problem in communication networks analysis is to determine the degree of centralization of computer power that is desirable from both an operational and cost/benefit point of view. An example of this problem occurs in a manufacturing complex wherein decisions must be made on the distribution of data, process power, and redundancy. Because of the many parameters involving hardware, system software, and communications, a purely analytical approach is often impractical. The method here is to employ an analytical simulation model to obtain measures of cost, throughput, and response time. After the model itself is examined, focus is placed on several experiments which reveal the superiority of semi-centralized configurations. Application to logistic and manufacturing systems are explored along with the development of a network link construction method.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A011 375 9/2

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Computer Network Usage -- Cost-Benefit Analysis.

(u)

DESCRIPTIVE NOTE: Technica: rept.. JUN 75 19P Lientz.Bennet P.:
REPT. NO. TR-5
CONTRACT: N00014-67-A-0269-0027. N00014-69-A-0266 PROJ: NR-049-345

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Put in Information Systems and Networks. p 117-131 1975. See also report dated Dec 73. AD-774 740. DESCRIPTORS: \*Communications networks. Cost effectiveness. Integer programming. Mathematical models

IDENTIFIERS: \*Computer networks. \*Benefit cost analys1s

(U) (11)

With the establishment of several computation-Communication networks several questions arise as to the cost-effectiveness of a network for a particular potential user. Analysis is necessary to determine potential user. Analysis is necessary to determine which software systems can be established and used on a network ratner than the internal computer of user's organization. The timings of transitions to the network must also be found. A methodology for cost/benefit analysis is presented. For multiple systems, an extended horizon and restricted resources, an integer programming method is resources. an integer programming method is developed. Approximations for planning and a discussion of stability are given. A numerical example is included. (U)

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AD-A011 186 15/5

ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

The Design to Unit Production Cost (DTUPC): Range of Applicability to Development Procurements.

(U)

OCT 74 70P Newlin Shirley H.': REPT. NO. PRO-304 Newlin.Kimrey D. : Carter.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis, \*Government procurement, \*Army procurement. Scientific research, Weapon systems, Logistics planning, Contracts (U) IDENTIFIERS: \*Design to cost, \*Design to Unit production cost, Benefit cost analysis (U)

The merits of Design to Unit Production.
Cost (DTUFC) as a method of procurement are
currently being heralded by the Department of
Defense and Army. The goal of lower
acquisition costs is very appealing. To date only
a few contracts which have incorporated DTUPC have a few contracts which have incorporated DTUPC have been awarded and only limited experience exists at this point in time. The purpose of this Study was to determine the applicability of DTUPC to AMC development procurements. The findings of this study indicate that DTUPC provisions should not be applied to development procurements if contract value does not exceed \$: million or projected production contract values do not \$4 million. (I

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AD-A011 185 15/5

ARMY PROCUREMENT RESEARCH (FFICE FORT LEE VA

Cost Growth: Effects of Share Ratio and Range of Incentive Effectiveness.

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DESCRIPTIVE NOTE: Final rept.. Launer.Robert L. : 56P JUL 74 56P REPT. NO. PRC-007-4

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Government procurement. \*Army procurement. Logistics planning. Cost estimates. Statistical analysis IDENTIFIERS: \*Cost growth. Cost overruns. Cost (0) underruns ( U )

This report addresses cost growth problems that have been experienced with CPIF contracts in the Army Materiel Command. especially those problems related to the incentive structure itself. The data base is composed of 53 randomly selected CPIF contracts completed between 1964 and 1971 with initial proce of %500,000 or more. The important major findings are that: (a) The use of the most probable cout for target costs (directed by ASPR) as opposed to expected cost. produces about 20 percent contract cost growth. (b) There is a 20 percent contract cost growth. (b) There is a positive Correlation between contractor's share of underrun and contractual adjustments and a negative Correlation between overrun and the contractor's share for overruns. (c) The contractor's share of underrun and overrun is less than the negotiated share, on the average, while his profit for final Costs which are above the upper limit of the range of incentive effectiveness is occasionally far greater than the negotiated minimum profit.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A010 960 15/5 14/4

RAND CORP SANTA MONICA CALIF

Getting 'Real' Data for Life-Cycle Costing.

JAN 75 Fiorello.Marco R. : REPT. NO. P-5345

UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems, \*Life cycles, \*Costs, Estimates, Reliability, Data

(U)

The process of identifying, collecting and using historical data for estimating the life-cycle costs of a weapon system is discussed. The focus is on or a weapon system is discussed. The rocus is of data-related problems which currently constrain the accuracy and reliability of life-cycle cost estimates. Particular attention is given to the costs of ownership. A case example is provided to illustrate the estimation of life-cycle costs using macro cost data for an operational weapon system.
Some of the uncertainties inherent in the data
collection and analysis processes are also discussed. Specific recommendations include implementing operationally consistent life-cycle cost estimation procedures, improving weapon system cost visibility in cost data systems, establishing and maintaining a nomenclature directory, implementing better cost ailocation rules, anticipation of life-cycle cost decision data requirements, and constructing and maintaining a special data base for life-cycle cost analysis and methodology development.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A009 971 15/3 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The Requirements Determination Process for Naval Weapon Systems: An Organizational Analysis.

(U)

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DESCRIPTIVE NOTE: Master's thesis. MAR 75 62P Probst.Lawrence E. : Wilson. Richard A. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems. \*Cost effectiveness.
\*Naval procurement. Military requirements.
Research management. Naval planning. Mission profiles. Department of Defense. Acquisition. Naval locistics. Theses IDENTIFIERS: \*Logistics management

The requirements determination process for naval weapon systems should lead to the most cost effective solution to meet perceived defense mission deficiencies. The thesis analyzes current Navy requirements determination procedures and evaluates the effectiveness of recent modifications in Correcting previously recognized shortcomings in this portion of the acquisition process. A current weakness identified in the navy procedural Organization is the designation of platform-oriented DCNOs as Force and Mission Sponsors. Specific recommendations to cor.ect this deficiency include the realignment of existing DCND Warfare Areas and Logistics with DCNO Mission Areas which are coincident with the RDT and £ Planning Categories of Strategic Deterrence. Sea Control. Projection of Power Ashore and Mission Support. (U)

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AD-A009 951

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ASSISTANT SECRETARY OF DEFENSE (INSTALLATIONS AND LOGISTICS) WASHINGTON D C

Guide for Monitoring Contractors' Indiract
Cost.

JUL 74 100P

# UNCLASSIFIED REPORT

Availability: Paper copy available from GPO.

SUPPLEMENTARY NOTE: See also report dated Dec 73, AD772 078.

DESCRIPTORS: \*Military budgets. \*Contracts, \*Cost
analysis. Management planning and control,
Management information systems, Analysis of
variance, Guides (U)

IDENTIFIERS: \*Indirect Costs, Contract
administration, Defense contracts (U)

This Guide is directed toward better control of the indirect costs, or overhead, particularly in those plants which perform major Government contracts. It does not relieve contractor management of its traditional responsibility to manage and control. It does point out what the Government expects of Contractor management and how the Government would monitor their efforts. Effective control of indirect costs involves tests of reasonableness, allowability, and allocability. Of these, the tests of reasonableness relates both to the reasonableness of the dollar amount of a cost and to the reasonableness of the contractor's action in incurring the cost. It is essential that those tests be vigorously applied to all costs, including indirect costs which account for a very large portion of the procurement dollars. (L

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AD-A009 931 15/5

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ARMY WAR COLL CARLISLE BARRACKS PA

The Higher Costs of Buying Less.

DESCRIPTIVE NOTE: Student essay. FEB 75 26P Moses.David M. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Department of Defense. \*Military prominement. \*Costs. Contracts. Scheduling. Spai - parts. Standardization

The study examines reduced procurements for materials for the Department of Defense which have caused higher unit prices. Recommendations are provided which would offset the higher costs including use of standard parts, timeliness of procurements and breakout of reprocurements from the prime Contractors.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7
AD-A009 910 5/1 6/5
NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

DESCRIPTIVE NOTE: Master's thesis, MAR 75 102P Sanders, Pobert Tracy;

Alcoholism in the Navy: A Cost Study.

UNCLASSIFIED REPORT

DESCRIPTORS: \*Alcoholism, \*Naval personnel, \*Cost analysis, Management information systems. Costs. Classification, Reviews, Statistical data, Treatment, Prevention, Quest.onnaires, Damage, Time, Losses, Education, These (U) IDENTIFIERS: Recommendations (U)

The primary objective of this thesis is to estimate a lower limit of costs which are associated with the Naval alcoholic. The costs are estimated in four specific areas: damage and loss of Navy property, loss of work due to medical problems, loss of work due to drinking patterns, and legal and administrative expenses. Such an estimate should be useful in more accurately calculating the savings involved when conducting cost analyses in the future.

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AD-A009 907 13/10 5/1 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The Organizational Impact of C/SCSC Upon the Supervisor of Shipbuilding.

DESCRIPTIVE NOTE: Master's thes'r.
MAR 75 93P Fitzg.bbons.Thomas Arthur :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Shipbu; Iding. \*Management planning and control. \*Costs. \*Naval logistics. Naval planning. Contracts. Scheduling. Stangards. Skills.
Training. Logistics planning. Thoses (U)
IDENTIFIERS: \*Logistics management (U)

Developing a management control system that will meet the needs of the government and its contractors has been a difficult task, particularly in shipbuilding. Only two Supervisors of Shipbuilding, SUPSHIPS Bath and Groton, have been involved with the implementation of the Cost/Schedule Control Systems Criteria on a major whipbuilding contract. The approach taken by each was quite different, and both differed from the NAVSEA suggested approach. These approaches are analyzed and measured against skill and training standards outlined by the Joint Logistic Commanders, in order to determine the advantages and disadvantages of each. Lastly, an approach is recommended to NAVSEA and SUPSHIPS which incorporates the lessons learned.

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AD-A009 844 14/1

RAND CORP SANTA MCNICA CALIF

An Appraisal of Logistics Support Costs Used in the Air Force IRDS Program. (11)

DESCRIPTIVE NOTE: Interim rept. FEB 75 53P Fiorello.Marco :Dey.Patricia Konoske ; REPT. NO. R-1569-PR CONTRACT: 744620-73-C-0011

70 aircraft, A-7 aircraft

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis, \*Weapon systems, \*Logistics support, \*Air Force procurement, Attack bombers, Reliability, Life cycles, Costs, Acquisition, Logistics planning, Department of Defense, Systems management. Systems engineering. Air Force logistics command IDENTIFIERS: \*Logistics management. IROS(Increase Reliability of Operational Systems). (U) Increase reliability of operational systems. A-

The report evaluates the KO51 logistic support cost report used by the Air Force Increase Reliability of Operational System (IROS) program. This program, in an effort to increase the reliability of operational systems, collects detailed cost data from these reports on weap'm systems and subsystems. The KGS1 cost reports were usessed subsystems. The hold cost reports were assessed by comparing their costs to reference costs from other data collection systems at the base and depot levels, for the Air Force Corsair II. It is seen that the KO51 reports do not reflect certain pertinent support costs, such as costs for weapon system aerospace ground equipment, maintenance, modification hardware, and Certain spanes; even in those categories for which the KO51 reports do provide costs, they are reported incompletely and in a disproportionate manner. Recommendations are made for correcting and extending the IROS KO51 reports. (U)

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AD-A009 576

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost Estimating Relationships for Naval Surface Ship Electronic Warfare Equipment.

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DESCRIPTIVE NOTE: Master's thesis. 43P Moore, Raymond Edward . III: MAR 75

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Electronic warfare. \*Cost estimates. Electronic equipment. Naval vessels. Cost analysis. Theses

The study addresses the problem of estimating the development, procurement, and installation costs of surface ship electronic wanfare equipment of the future. The Cost Estimating Relationships (CERs) were developed using the following factors: year of development, weight, volume. sensitivity, power output, gain, complexity and dummy variables for active equipment, equipment designed it large ships and one for those designed for small ships. Cost estimates are made for three systems presently under development by Raytheon Company and Hughes Aircraft Company under a design-to-(U) price program.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? AD-A009 189 15/5 5/1 19/3 AD-A009 183 5/1 15/5 ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING ARMY TATERIEL COMMAND TEXARKANA TEX INTERN TRAINING The Concept of Life Cycle Costing Applied to the MICV Project. Managing Cost Overrun Engineering Change (U) Proposals. DESCRIPTIVE NOTE: Final rept..

APR 75 33P Mariutto.William F.:
REPT. NO. USAMC-ITC-02-08-74-211 DESCRIPTIVE NOTE: Final rept..

MAR 75 48P Tutka.James L.:
REPT. NO. USAMC-.TC-02-08-75-229

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost estimates, \*Life cycles,
\*Combat vehicles, \*Contract administration,
Contracts, Reliability, \*Asthematical models (U)
IDENTIFIERS: \*Indifference contracting, Life cycle
costing (U)

The study presents a new combination of Life
Cycle Costing and Linear Indifference tased
on the MICV (Mechanized Infantry Combat
Vehicle) project. A payment plan, based
directly on the mean miles between failure, will be
utilized in the program. With the establishment of
the contracting plan, the consumer is rendered
indifferent to the reliability of the product. (U)

# UNCLASSIFIED REPORT

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DESCRIPTORS: \*Military procurement. \*Cost estimates.

Contracts. Regression analysis. Mathematical models. Mathematical prediction (U)
IDENTIFIERS: \*Sost overruns (U)

This research report examines data collected representing cost estimates for engineering changes and the actual cost of the change. It gives a picture of the outcome of the present method of approval authority at the United States Army Electronics Command. The history of past Cost estimates is reviewed and by use of .egression analysis an attempt is made to control possible cost overruns in the future. This data revealed a serious deffiency in certain areas and a recommendation is made to revise the present method to try to reduce the serious cost overruns that occurred.

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AD-A009 120

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Analysis of Proposed Stock Range Rules,

APR 75 50 REPT. NO. 118 PROJ: FMSO-971190 Engelman.J. L. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Inventory control. \*Naval procurement. \*Countriums: \*Inventory control, \*Naval procure!
\*Cost effectiveness, \*Logistics planning.
Operations research. Systems analysis.
Mathematical models. Naval planning, Logistics
support, Department of Defense. Policies, Naval
logistics (U) IDENTIFIERS: \*Stock level control. \*Logistics (U) management

The provisioning process at the Inventory Control Points of the various services are thought to be the source of much excess stock. The Department of Defense has recently issued policy on the range determination. The cost equation considers the costs to stock with no demand, to stock with demand, and to satisfy demand for non-stocked items. Alternate models are permitted if time-weighted requisitions short is a consideration in the model. The Navy in the recent past developed such a model. The study compares performance of the Navy model, the DOD model, and current rules used at a Navy Inventory Control Point.

The Navy model was more cost-effective than the DOD model, but neither model attained the response time of current rules.

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The Development of Alternative Food Cost Indexes.

DESCRIPTIVE NOTE: Technical rept. NOV 74 80P Brandl'
REPT. NO. USA-NLABS-TR-75-67-0...
PROJ: DA-1-T-762713-AJ-45
TASK: 1-T-762713-AJ-450:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Food. \*Cost analysis. \*Department of Defense. Food dispensing. Systems analysis. Military rations. Menu. Dining halls

A number of different methods have been developed and evaluated for creating a Food Cost Index (FCI). Pending passage of a Uniform Ration Law (URL), it is recommended that a food subgroup type FCI be formulated consistent with the type FCI be formulated consistent with the provisions of the existing Navy Ration Law (NRL) and with actual military food utilization patterns. After the adoption of a new URL, an improved FCI should be formulated using a least squares technique applied to the latest military food utilization data. A reference menu approach for determining the Basic Daily Food Allowance (BDFA) should also be further developed and (U) evaluated.

AD-A009 120

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AD-A009 096

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ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A009 074 15/5 13/

RAND CORP SANTA MONICA CALIF

Production Rate and Production Cost.

DEC 74 74P tange.Joseph P. :Hoffmayer. Kan! :Kontrovich.Frank : REPT. NO. R-1609-PA/E CONTRACT: DAHC15-71-C-0220

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Military equipment. \*Production rate.

\*Cost estimates. Labor, Learning curves.

Statistical analysis. Aircraft. Guided missiles

IDENTIFIERS: Design to cost

()

This study examines the effect of production rate on the cost of selected types of military hardware. It was assumed that production rate and unit cost varied inversely: and if that could be established, it was hoped that an estimating model could be developed that would express that relationship for various elements of cost. The analyses described here suggest that the effect of production rate on manufacturing labor, manufacturing materials, tooling, and engineering cannot be predicted with confidence.

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A007 467 15/6

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Cost/Benefit Matrix Model of Nuclear Deterrence.

DESCRIPTIVE NOTE: Master's thesis.
MAR 75 57P Barbero.Mark:

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Nuclear warfare. \*Deterrence. \*Cost analysis. Military strategy. National defense.

Nuclear weapons. Decision making. Theses (U)
IDEMTIFIERS: \*Nuclear deterrence. \*Cost benefit analysis. \*F:rst strike capability (U)

This thesis develops a cost/benefit matrix model of deterrence processes. The model is designed to assist analysis of complex multi-nation interactions when an issue vital to the national survival of each participant is in the balance. A variety of interactions are examined using the model to determine if deterrence exists. The analysis of the various interactions results in the conclusion that deterrence exists when an assured destruction capability exists. Further, deterrence is lost in certain cases when the assured destruction capability is not maintained. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD-A007 437

15/5

PLANNING RESEARCH CORP MCLEAN VA

Navy Reliability and Maintainability Policy

Study -

DESCRIPTIVE NOTE: Final rept. Jun 71-Feb 74.

AUG 74 176P Bloomquist.Charles E.;
Grainger,George R.;Poland,James R.;Reardon,
Francis P.;
REPT. NO. PRC-R-1810
CONTRACT: N00014-72-C-0007

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval equipment, \*Waintainability, \*Reliability, Life cycles, Cost analysis, Logistics support. Cost effectiveness, Ship auxiliary equipment, Ship structural components IDENTIFIERS: Life cycle costing

This report covers the investigation of all major (RMA) policies that affect the aquisition of hull.
machanica', and electrical equipments for the Navy.
Acquisition includes all life-cycle phases from
concept formulation through equipment disposal. Emphasis is placed on RMA policies during all the design phases, the maintenance/overhaul phase, and design phases, the maintenance/overhauf phase, and the redesign phase. In addition, data systems used to monitor the effectiveness of the equipments, as well as the analytical techniques used to manipulate the data to provide RMA indices, are examined. Personnel training policies are also investigated. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A007 287

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DEFENSE LOGISTICS STUDIES INFORMATION EXCHANGE FORT LEE

Commodity Type as a factor in Contract Cost Growth.

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JUN 74 30P Muctago, Brian N. :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Army procurement. \*Contracts. \*Cost analysis. \*Logistics planning. Army equipment.

in relation to price change was investigated.

Costs. Logistics support. Theses
IDENTIFIERS: \*Logistics management. \*Cost growth. Price changes

The Army Procurement Research Office (PRD). Institute of Logistics Research. U.S. Army Logistics Management Center. has conflucted a number of studies to determine the causes of contract cost growth in Army procurements. The Study is based on the data used in a May 1973 report. Whether the commodity type effects contract type or the results of the contract

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A007 125

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

A Product Improved Method for Developing a Program Management Office Estimated Cost at Completion.

(U)

DESCRIPTIVE NOTE: Research rept..

JAN 75 58P Holeman.J. B. . Jr:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Management planning and control. \*Cost estimates. Budgets. Government procurement.
Department of Defense IDENTIFIERS: \*Project management (u)

This booklet describes a product improved method Inis bookiet describes a product improvab method for developing a DOD program management office (PMO) estimated cost at completion (EAC). The technique was developed to assist the PMO in checking the reasonableness of the EAC provided by contractors validated under the cost/schedule Control systems criteria (C/SCSC). The booklet itself was designed and written to be used in the working level by PMO members of the program control/ management division or the business/finance (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A007 121

ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY ABERDEEN PROVING GROUND MO

A Logistic/Cost-Effectiveness Wodel for

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DESCRIPTIVE NOTE: Technical rept.. FEB 75 52P 5 REPT. NO. AMSAA-TR-103 PROJ: DA-1-T-765706-M-541 Sheldon.John F.:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Flares. \*Cost effectiveness. \*Logistics planning. \*Night warfare. Wission profiles. Tactical warfare. Wilitary procurement. Computerized Simulation. Computer programs. Area coverage. Intensity. Cost estimates. Illumination IDENTIFIERS: \*Logistics management

The model establishes a quantitative criterion for the cost and logistic numbers of  $f^{\dagger}$ ares necessary to satisfy the need for light to see and engage enemy targets at night. (U)

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AD-A007 121

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A007 064 15/5

RAND CORP SANTA MONICA CALIF

Directed Licensing: An Evaluation of a Proposed Technique for Reducing the Procurement Cost of Aircraft,

DEC 74 145P Carter.Gregory A. :

REPT. NO. R-1604-PR CONTRACT: F44620-73-C-0011

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Air force producement, \*Military aircraft, \*Cost analysis, Contracts, Agraements, Costs, Reduction, Logistics planning (U) IDENTIFIERS: \*Directed licensing, \*Competitive bidding, \*Logistics management (U)

The study evaluates the feasibility of introducing price competition into military aircraft procurement by the technique of 'directed licensing,' whereby the Government obtains from a weapon system developer, a commitment for nights to production duta and an agreement to license whomever the Government designates. Case studies of related types of aircraft producement are presented, showing that competitive bidding has resulted in substantial pavings as compared to soiemsource producer ant. Techniques for mewing aircraft production from one manufacturer to another are described to indicate the technical feasibility of the directed Plansing concept, and a minimum-risk way in which directed licensing could be tried is outlined. Although this study focuses on aircraft producement, the results should be equally applicable to producement of other complex weapon systems. (U)

### UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 70907

AD-A006 783 15/5

CENTER FOR NAVAL ANALYSES ARLINGTON VA INST OF NAVAL STUDIES

Estimating the Warginal Balance of Payments
Cost of Overseas Humeporting. (U)

DEC 74 22P Stoloff.Peter H. :Aucella. John P. :McKinley.Harold H. : Ur.:Auzmack. Richaro A. : DET MG COP-274

REPT. NO. CRC-271 CONTRACT: NOC014-68-2-0091

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval vessels. \*Costs. \*Naval
personnel. \*Logistics planning. Gverseas.
Maintenance. Military facilities. Logistics
support. Cost analysis. Naval logistics (U)
IDENTIFIERS: \*Balance of payments. \*Overseas
howeporting. \*Logistics management (U)

A procedure for estimating the balance of payments cost of oversals homeporting is developed. Planning factors based on recent overseas homeporting experience are provided, in tabular form. By specifying certain characteristics of the overseas homeporting program, such as the snips to be homeported, the area, and the availability of base support. Navy planners can choose the appropriate planning factors to use in the estimation procedure. An application of the procedure using planning factors is shown.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A006 508 5/2 :5/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Designing a Manual Cost Data Base.

DESCRIPTIVE NOTE: Final rept., FEB 75 29P Stephenson.Hal W.; REPT. NO. TRUSCOM-TR-75-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Costs, \*Data bases, Indexes, Libraries, Information retrieval, Data processing,

A six-step method for designing a manual cost data base is presented in this report. Indexes and sections of use in a cost data base are defined. An example is given. Prototype forms for eight indexes, an accession logbook and an abstract logbook are illustrated. The description is sufficiently detailed so a military organization with significant cost research activities could adapt the system to its own needs.

#### UNCLASSIFIED

DOC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A006 505 1/3

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Optimization of the Time Between Aircraft Overhauls by Minimizing Maintenance Cost.

DESCRIPTIVE NOTE. Final rept..

JAN 75 70P Smith.Shirley J. :Gaffney.
Florence A. :Schulze.Billy R. :Fox.D. Frank :Stone.8laine Y. :
REPT. NO. USAAVSCOM-TR-74-53

UNCLASSIFIED REPORT

DESCRIPTORS: \*Army aircraft, \*Maintenance, \*Cost analysis, Life cycles, Costs, Mathematical models. Optimization

The purpose of the study was to investigate the feasibility of determining when an aircraft should be overhauled in order to minimize the life time maintenance cost of the aircraft. It was assumed that the cost of field maintenance increases as the aircraft's flight hours increase. Also, it was assumed that following an overhaul the cost rate drops significantly, then increases again until an overhaul. The total life time maintenance cost is the sum of all field maintenance costs and all overhaul costs. Then, the optimum time between overhauls was found as that time for which the life time maintenance cost is a minimum. (0)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMD?

AD-A006 344 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Cost-Estimating Relationships for Predicting Life-Cycle Costs of Inertial Measurement Unit Maintenance,

(U)

DESCRIPTIVE NOTE: E: Master's thesis, 92P Lynch.Lynn JAN 75 92P Neil'V.; REPT. NO. SLSR-18-75A Lynch, Lynn M. ; Raymond,

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Inertial navigation, \*Maintainability, \*Cost estimates, \*Inertial measurement units, Life cycles, Mathematical models, Naintenance, These

A major problem to life cyc'e cost planners is the scarcity of tools available for use in the conceptual phase of system design and acquisition that accurately predict operational and support costs. This thesis developed a cost-estimating relationship (CER) that predicts maintenance costs of inertial measurement units (IMUs) using only design and policy data that would be available to planners in the conceptual phase of weapon system acquisition. The cost estimated is the average quarterly maintenance cost per aircraft. The estimating variables are selected based on two criteria: (a) Is the variable one that, viewed logically, would affect maintenance costs. (b) Is the variable one that would be known to planners in the conceptual phase of weapon system acquisition. The CEP was downtood. acquisition. The CER was developed by the ordinary least squares method of multiple regression

#### UNCLASSIFIED

CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A006 341 .15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Economic Model to Determine Costs wner Intermediate Level Repair Uses Remotely Located Automatic Test Equipment. (u)

DESCRIPTIVE NOTE: Master's thesis. JAN 75 112P Gentry, Neal W.: Garrett. James T. . Ja.: REPT. NO. SLSR-13-75A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force equipment, \*Maintenance. \*Cost analysis, Jet fighters, Repair, Maintenance equipment. Field equipment. Logistics support, fneses
IDENTIFIERS: \*FF \*Maintenance concept. F-15 aircraft

Since the 1950's, the Air Force has recognized the advantages and flexibility of repairing items at the base or intermediate level. However, over the past few years the increased complexity and sophistication of mouern weapon systems has brought about the advent of complex and expensive automated about the advent or complex and expensive automated test equipment. In order to muintain the advantages of intermediate repair, the expensive test equipment had to be procured for and maintained by the individual operating bases: thus producing a very high life cycle cost. In an effort to reduce cost in the face of austere funding, a study was conducted to determine the economic feasibility of centralizing the automatic test equipment. the automatic test equipment.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A006 335 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Evaluation of Proposed Criteria to be Used in the Selection of Candidates for Reliability Improvement Warranties. (U)

DESCRIPTIVE NOTE: Master's thesis.

JAN 75 118P Dunn, Payto
Oltyan, Andrew W. : Dunn, Payton E. REPT. NO. SLSR-7-75A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force equipment. \*Maintenance. \*Cost analysis, Air Force procurement, Life cycles, Costs, Contracts, Theses IDENTIFIERS: \*Life cycle costing

As DOD's percentage of the budget Continues to decline, there is an increasing need to get more for the defense dollar. One way to achieve this objective is through the use of Reliability Improvement Warranties (RIW). The RIW calls for a total repair contract based on a predetermined Mean Time Between Failure (MTBF). The contractor to whom the contract is let can realize increased profits by increasing the MTBF of the item. He does this by initiating 'No Cost' Engineering Change Proposals which will increase item performance and reliability. The study was designed to survey the existing population of items covered by a RIW to determine what characteristics they had in common.

### UNCLASSIFIED

DDC REPORT BIBLIUGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A006 214 15/5

ARMY MATERIEL COMMAND ALEXANDRIA VA

AMC Guide for Design to Unit Production Cost (DTUPC).

UNCLASSIFIED REPORT

#### DEC 74 80P

DESCRIPTORS: \*Army prosurement. \*Production control. \*Cost analysis. Industrial production. Contracts. Contract acm.nistration. Cost estimates. Logist IDENTIFIERS: \*Design to cost. \*Design to unit production cost. \*Contract proposals. \*Cost (U) reduction (U)

The purpose of this quide is to provide assistance to those functional activities of the US Army Materiel Command (AMC) charged with the responsibility of estimating, applying, and/or controlling the design-to-cost concept. It is particularly concerned with the establishment of unit cost goals in development contracts as design parameters for production of hardware items. Trese Specific development contract values managed by AMC are referred to as Design To Unit Production Cost (DTUPC) goals. This guide supplements basic information provided in the Joint Logistics Commander' conceptual guide on design-to-cost published October 1973. (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A006 205 15/5

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO SYSTEMS ANALYSIS

A Cost-Effectiveness Model, Choice through Preferences.

(u)

DESCRIPTIVE NOTE: iechnical rept., FEB 75 46P Ross,Frank W.; REPT. NO. AMSAV-D-74-20 MONITOR: USAAVSCOM TR-74-51

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Military supplies. \*Decision making. \*Cost effectiveness, Logistics. Costs, Military procurement, Delphi techniques, Trade off

IDENTIFIERS: Benefit cost analysis

A cost-effectiveness model is developed where a constrained minimum solution defines the appropriate choice of systems and system designs. A significant advantage of this model over existing ones is the measurement of effectiveness by an ordinal preference function. This function describes the preferences of designs consider the preferences of designs consider the preferences. of decis.on-makers for various design Characteristics as implied by the Delphi Method. The technique should find important application in areas where selections must be made among various systems and (U) system designs.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A005 426 1/3 14/1

GENERAL DYNAMICS SAN DIEGO CALIF CONVAIR AEROSPACE

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume II. Supporting Design Synthesis

(U)

-26-10-2

DESCRIPTIVE NOTE: Technical rept. Jul 72-Dec 73. SEP 74 73P Ker CONTRACT: F33615-72-c-2c33 PROJ: AF-1368 TASK: 1368C2 Kenyon.R. E. :

MONITOR: AFFDL

TR-73-129-Vol-2

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-783

DESCRIPTORS: \*Aircraft, \*Airframes. \*Cost estimates. Costs. Cost analysis. Aerodynamic control surfaces. Structural members. Computer

programming IDENTIFIERS: Design to cost. Cost estimating relationships. Design synthesis. APAS computer program

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This volume describes the supporting programs used This volume describes the supporting programs used in conjunction with a cost estimating program to provide a trade study cost estimating technique for aerodynamic surfaces. The supporting programs for the purpose of this discussion are defined as a structural synthesis program and a secondary structure synthesis program. The structural synthesis program is used for the analysis of primary structure and is called APAS (Automated Program for Aerospace-Vehicle Synthesis). The for Aerospace-Vehicle Synthesis). The secondary structure synthesis program estimates geometry and weights, and performs parts definition for the aerogynamic surface leading edge, trailing edge, and tip components. The cost estimating adaptation is derived from programs originally developed under Independent research and

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AD-A005 426

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A005 298 5/9

COOPER AND CO STAMFORD CONN

Evaluation of Methodology for Estimating the Cost of Air Force On-the-dob Training. (U)

DESCRIPTIVE NOTE: Final rept. Oct 73-Jun 74. NDV 74 60P Same Alan D. : Nordhauser.Fred ; CONTRACT: F41609-72-C-0048 PROJ: AF-2077 TASK: 207703 Samers.Bernard N. ; Dunham.

WONITOR: AFHRL TR-74-73

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 1974. AD-785

DESCRIPTURS: \*Job training, \*Cost analysis, Air

Force training, Models, Surveys IDENTIFIERS: On job training (U)

The report describes the final phase of a study directed at the development of an on-the-job training (OUT) costing methodology. Utilizing a modification of survey techniques tested and wodification of survey techniques tested and evaluated during the previous phase, estimates were obtained for the cost of OJT for airman training from the 1-level (unskilled) to the 3-1-vel (semi-skilled) in five category B Air Force (semi-skilled) in five category B Air Force specialties. The specialties studied were pavement maintenance (551X0); fire protection (571X0); food service (622X0); fuel service (631X0); and material facilities (647X0). The cost per Graduate of DJT for these specialties was compared to the cost per service of the cost graduate of resident school technical training. Supervisors were surveyed to determine if there was a difference in performance between OJT and technical school graduates in these AFSCs. Conditional cost models were also formulated and tested. The conditional cost models are based on an alternative or opportunity cost concept and represent a refinement of the original cost models. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A004 841 9/2 15/5

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

Automatic Cata Processing Costs in the (11) Defense Department.

DESCRIPTIVE NOTE: Final rept. Feb-Sep 74. Fisher . David A. :

OCT 74 70P F1: REPT. NO. P-046 CONTRACT: DAHC15-73-C-0200

MONITOR: IDA/HQ 74-16529

UNCLASSIFIED REPORT

DESCRIPTORS: \*Data processing. \*Department of Defense. \*Cost analysis. Costs. Computer programming. Data processing equipment. Government

procurement. Rental equipment. Contracts. Maintenance

7111 IDENTIFIERS: \*Cost estimates

This paper is concerned with the cost of providing automatic data processing (ADP) services in the Department of Defense. Available cost information for ADP systems in DOD is collected.
major Components of those costs are identified. the costs are partitioned among computer hardware. software and other ADP, certain trends are identified, and an estimate of total annual ADP costs in DOD is made. Total annual ADP costs are estimated at \$6.2-\$8.3 billion or 30%-50% of all electronics expenditures in DDD. Software accounts for about 45% of all ADP costs and one-third of the ADP man-years. In the last five years the number of reported DDD computer systems has increased 28%, but the number reporting costs has declined, resulting in no increase in reported costs. Over the last five years there has been a shift from use of in-house ADP personnel toward contract services, and from rental to purchase of ADP equipment.

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AD-A004 841

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A004 568 5/3

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CALIFORNIA UNIV LOS ANGELES WESTERN MANAGEMENT SCIENCE

Optimal Consumption with a Stochastic Income Stream.

DESCRIPTIVE NOTE: Interim rept.,
74 15P Miller.R

12/1

Miller, Bruce L. ;

74 15P Mil CONTRACT: AF-AFOSR-2349-72

PROJ: AF-9769 TASK: 976905

MONITOR: AFOSR TR-75-0079

#### UNCLASSIFIED REPORT

Availability: Pub. in Econometrica, v42 n2 p253-266, Mar 74.
DESCRIPTORS: \*Stochastic processes, \*Costs, DESCRIPTORS: \*Stochastic processes, \*Losis, \*Labor, Mathematical models, Distribution functions, Mean, Economics, Risk, Investments, Optimization, Budgets, Probability, Reprints IDENTIFIERS: \*Interest rates, Utility functions, (U) Riskless investment (U)

A .nfinite horizon consumption model is considered where the labor part of income is random. An upper bound on optimal consumption is obtained by considering the expected value of the optimal return function in the deterministic labor income case. This upper bound on consumption is easily shown to be lower than the value of optimal consumption in the case where the random labor income is replaced by its mean. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A003 922 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

Arm, Inventory Cost Parameters.

DEC 74 Kaiser.Robert D. :Boisseau. 88P

H. J. : REPT. NO. LMI-/4-15 CONTRACT: SO-321 PROJ: 50-321-22

(U)

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Army procurement. \*Cost analysis. \*Logistics support. Inventory control.
Mathematical rodels. Regression analysis. Cost estimates. Policies. W teriel. Maintenance.
Repair. Inflation(Economics)
IDENTIFIERS: \*Logistics management. Stock level

control. Computer aided analysis CUI

The study establishes values for cost-to-order and Cost-to-hold at Army Direct Support Units (DSUs) handling Class IX (Repair Parts) items. It also includes detailed procedures by which the Army may update those parameters. It recommends that the Army introduce a new constraint policy for setting reorder quantities at DSUs, and that the value of the cost-to order parameter be adjusted annually for inflation.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A003 905 15/5

NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY WASHINGTON D

Navy Weapon System Life-Cycle Cost Model. (0)

SEP 74 133P Opresko,Gregory A.; REPT. NO. NAVWESA-R-746

UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems. \*Naval procurement. \*Cost analysis, \*Logistics support. Life cycles, Mathematical models, Systems engineering, Cost estimates. Logistics planning IDENTIFIERS: \*Logistics management (U) (U)

The Navy Weapon System Life-Cycle Cost Model is a generalized user-oriented cost model that calculates and displays system costs in accordance with a work Breakdown Structure (W85) or similar hierarchal Cost level scheme. It is applicable to any development program in which costs must be monitored and recalculated for frequent changes in cost-related parameters. The model is intended for use by a cost analyst. (U) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

15/5 AC-A003 436

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Operating and Support Costing Guide: Army Weapon Systems.

DEC 74 32P

UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems. \*Army procurement. \*Cost analysis. \*Logistics support. Cost estimates. Life cycles. Logistics planning IDENTIFIERS: \*Logistics management (U) iūi

The guide provides an ASARC/DSARC/CRAIG framework for review of major weapon system life cycle operating and support (D and S) cost estimates. It presents standard D and S cost elements, a standard approach to estimating D and S costs and a standard approach to documenting the cost estimates derived. This guide formalizes the procedures for O+S costing throughout the Army Cost analysis community. It reflects the Cost elements and methodologies to be used by HODA in analyzing weapon system 0 and S cost estimates prepared by subordinate Commands. Because it is conceptually related to the CAIG O and S Guide. the guide will be used as the basic O and S costing terms of reference before the CAIG. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A003 354

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Joint Generalized Least Squares Applied to Cost Estimation for Fighter Aircraft.

DESCRIPTIVE NOTE: Master's thesis. DEC 74 103P C'Brien, Patrick W.; REPT. NO. GSA/SM/74r,

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Jet fighters, \*Cost estimates, \*Least squares method, Ayionics, Airframes, Jet engines, Cost analysis, Theses
IDENTIFIERS: F-100 aircraft, F-101 aircraft, F102 aircraft, F-104 aircraft, F-105 aircraft, F106 aircraft, T-38 aircraft, F-4 aircraft (U)

Joint Generalized Least Squares is an extension of least squares techniques which decreases statistical uncertainty in derived regrassion equations. The technique is applied to historical costs for airframes, avionics, and engines in fighter aircraft. A comparison is made of paramatric cost estimating relationships derived using ordinary and doint Generalized Least Squares to demonstrate reductions in statistical uncertainty. (U)

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DDC REPORT BIBLINGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A003 353

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF

Cost Estimating Relationships for Procurement Costs of Airborne Digital Computers and Inertial Measurement Units for Use in Remotely Piloted Vahic'es.

(U)

DESCRIPTIVE NOTE: Master's thesis.

DEC 74 80P Funkhouser.Kenneth v.:

REPT. NO. GSA/SM/749-3

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Remotely piloted vehicles. \*Avionics. \*Cost estimates. Digital Computers. Inertial measurement units. Procurement. Costs. Theses IDENTIFIERS: \*Cost estimating relationships (U)

Parametric cost estimating relationships (CER's) are developed to predict procurement costs of airborne digital computers and inertial measurement units which are suitable for use in remotely piloted vehicles (RPV's). The CER's predict first unit recurring cost in 1974 dollars and can be incorporated with an appropriate learning curve to estimate average cost for a given production Quantity. A brief discussion of a computerized parametric Cost estimation technique, the RCA PRICE model, is provided to compare methodology, input requirements, and output. The predictive capabilities of the RPV CER's are compared to avionics procurement CER's developed by the Air Force Avionics Laporatory. The RPV CER's are generally more accurate than the AFAL CER's when procurement costs of equipment usable in remotely piloted vehicles are being estimated. (U)

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DDC REPORT SIBLIDGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A003 352

1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

An Extension of Cost Estimating Relationships for Airframes of Remotely Piloted Vehicles.

(U)

DESCRIPTIVE NOTE: Master's thesis.
DEC 74 127P High, James High. James D. : Rose, Howard DEC 74 C. . Un; REPT. NO. GSA/SM/740-5

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Remotely piloted vehicles, \*Airframes, \*Cost estimates, Fabrication, Production engineering, Labor, Least Squares method. (U) Theses IDENTIFIERS: \*Cost estimating relationships. (11) Sensitivity analysis

Cost estimating relationships (CER's) wer developed for remotely piloted vehicle (RPV) airframes. A limited data base consisting of drones and RPV's was augmented with airbreathing. preprogrammed missiles. Logarithmic and linear equations were developed where possible using ordinary least squares regression for six categories of cost: engineering, manufacturing labor, tooling, material, development support, and flight test.

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07

AD-A003 279

17/2 14/1

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effect:veness Program Plan for Joint Tactical Communications. Volume II. System Effect iveness.

(u)

DESCRIPTIVE NOTE: Final rept..
NOV 74 113P Loughney.Thomas M.:
REPT. NO. 170-ORT-032-74-Vol-2

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Aug 74. AD-DESCRIPTORS: \*Tactical communications. \*Cost effectiveness. Systems engineering. Models (U)

The volume contains the following information: A conceptural model of system effectiveness for Joint Tactical Communications Systems and Equipment: An approach to system effectiveness modeling: A system effectiveness methodology: Techniques for measurement and analysis: Measures of effectiveness.

(U)

AD-A003 352

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AD-A003 279

DDC REPURT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7 15/5

AD-A003 230

19/6

WATERVLIET ARSENAL N Y

Logistical Simulation Model for the Light Weight Company Mortar: A Technique for Computing Support Cost and Operational Availability.

(u)

DESCRIPTIVE NOTE: Technical rept.,
DEC 74 23P Fiscella,Russell;Adam;
John R.;
REPT. ND. WVT-TR-74053
PROJ: DA-1-J-664602-D-029, PRON-A1-4-54700-02-Fiscella, Russell : Adams III. M1-M7

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Mortars, \*Logistics, \*Operational readiness. Maintainability. Spare parts. Logistics support, Costs, Computerized simulation. Value engineering IDENTIFIERS: VERT computer program (U)

This study was performed to determine the support cost of the LWCM for one year and the cherational availability of the LWCM based on reliability. maintainability, and logistical inputs. A reliability distribution for each mortar component and the maintenance policy were input to a VERT computer program. Ammunition consumption was set at 10,000 rds a year. Repair parts were distributed at appropriate levels. The probability that parts would be on hand at each level and logistical downtime for each leve' was played. The most probable case showed a mean cost of \$2,714 to support the mortar and a mean operational availability of .93. (U)

#### UNCLASSIFIED

DOC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A002 68:

15/5

MINNESOTA UNIV MINNEAPOLIS GRADUATE SCHOOL

Managerial Inventory Formulations with Stockout Gojectives and Fiscal Contraints.

(U)

74 159 Schroeder . Roger G. :

# UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v21 n3 p375-388 Sep 74.

SUPPLEMENTARY NOTE:
DESCRIPTORS: \*Inventory analysis. \*Cost analysis.

Mathematical models, Inventory control. Management planning and control, Lead time. Stockpiling.

Abundance, trage off analyses. Peprints

(u)

Most inventory formulations seek to minimize the Sum of ordering costs, holding costs, and stock costs: however, management often directs inventory policy by specifying a maximum investment level and/ or a purchasing budget constraint. Within these limitations, they expect lower level managers to optimize some level of customer satisfaction, such as minimum stockouts or minimum shortages. The author has developed several cases of these 'managerial' inventory formulations and has presented some (U) computational results.

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A002 678 14/1 15/5

MICHIGAN UNIV ANN ARBOR

A General Treatment of Upper Unbounded and Bounded Hitchcock Problems,

> 21P Dwver.P. S. :

### UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v21 n3 p445-464 Sep 74. SUFPLEMENTARY NOTE: DESCRIPTORS: \*Costs, \*Logistics planning. \*Transportation, Matrices(Mathematics), Statistical distributions, Mathematical models, Range(Distance), Set theory, Transformations (Mathematics), Shipping, Cargo. Denrinte (U) IDENTIFIERS: Hitchcock problem

This paper is designed to treat (1) the problem of the determination of the absolute minimum cost. with the associated assignments, when there is no limit. N, on the number of parcels available for shipment in a modified Hitchcock problem. This is accomplished with the use of a transformed cost matrix, C\*, to which the 'p-called transportation paradox does not apply. The general Hitchcock solution using C\* gives the cost T\*, which is the absolute minimum cost of the original problem, as well as sets of assignments which are readily transformed to give the general assignments of the original problem. The sum of these latter assignments gives the value of N sub u. the unbounded N for minimum cost. In addition, this paper is designed to show (2) how the method of reduced matrices may be used. (3) how a particular Hitchcock solution can be used to particular hitchcock solution can be used to determine a general solution so that one solution using C\* can provide the general answer. (4) how the results may be modified to apply to problems with fixed N, and hence (5) to determine the function of the decreasing T as N approaches N sub u and finally (6) to provide a treatment when the supplies at origin i and/or the demands at destination j. are bounded. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A002 322 9/2

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SOFTECH INC WALTHAM MASS

Criteria for Evaluating the Performance of Compilers.

SCRIPTIVE NOTE: Final nept. Jun 73-Jun 74. OCT 74 353P Bloom.Burton H.:Clark.Mac H.:Feldman.Clare G.:Coe.Robert K.: DESCRIPTIVE NOTE: CONTRACT: F30602-73-C-0321 MONITOR: RADO TR-74-259

### UNCLASSIFIES REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Compilers. Performance. Measurement. Computer architecture. Algorithms. Computer

programming IDENTIFIERS: •Performance evaluation. Compumetri's. Parsing. Benefit cost analysis (0)

The main purpose of this study was to develop Criteria by which it will be possible to qualifatively measure and evaluate the performance of Compilers. possibly operating on different computers. and possibly having different features. To satisfy this purpose, three technical questions were Studied: (1) How can two compilers with the Same features and Operating in the same environment be compared. (2) If two compile's with the same features operate in different environments, how can their measured differences in performance be attributed to the environmental differences vs. the Compiler differences. (3) How should a compiler buyer deal with the problem of evaluating compilers with different special features. These three Questions were studied from a point of view that the answers should nelp provide a basis for conducting collar cost/benefit analysis of compilers.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-A002 204

Geographic locations

21/4

RAND CORP SANTA MONICA CALIF

Fuel from Organic Matter.

(u)

(U)

OCT 73 Dugas.Doris J. : REPT. NO. P-5100

UNCLASSIFIED REPORT

DESCRIPTORS: \*Energy conversion. \*Fuels. Organic raterials. Photosynthesis, Vegetation, Farm Crops, Forests, Trees, Algae, Corn, Sorgnum, Wastes(Industrial), Solid wastes, Urban areas. Anaerobic processes. Yeasts, Fermentation, Pyrolysis, Quantities
IDENTIFIERS: Agricultural wastes, waste disposal,
\*Solid waste disposal, Refuse, Cost estimates. (U)

It has been suggested frequently that the solar energy stored in green plants and Organic wastes could be tapped to provide an alternative to the dwindling resources of fossil fuels. The advantage would be a fuel source that is renewable and available in our own time. This paper investigates the amounts of energy that might be made available from organic sources, the approximate cost of producing it and converting it to a convenient fuel and some of the implications of a large-scale agreement, industry. energy industry.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 15/5

AD-A002 013

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

On Determining Cost Effectiveness of an Army Automatic Meteorological System. (U)

DESCRIPTIVE NOTE: Research and development technical

rept.. NOV 74 13P Wil er.kalter :Engelbos. Bernard: REPT. ND. ECCM-5548 PROJ: DA-1-T-162111-AH-71

System). Automatic meteorological system

UNCLASSIFIED REPORT

DESCRIPTORS: \*Army operations. \*keather forecasting. Automatic. Mathematical models. Stochastic processes. Cost effectiveness
IDENTIFIERS: AMS(Automatic Meteorological (U)

Possible criteria for a cost effectiveness model for the Army Automatic Meteorological System are discussed. A determination of the nature of are discussed. A determination of the nature of the problems expected to be encountered in satisfying these Criteria Appears Limital to that A the construction of a Stochastic model, where a careful balance between fidelity and tractability is essential. Barrier problems stemming from inrdequacies in the interrelationship of weather and computer-played combat simulation models are also

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DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A001 747 15,75 COSY ANALYSIS IMPROVEMENT GROUP WASHINGTON D C

Operating and Support Coss Development Guide for Aircraft Systems.

MAY 74 59P

UNCLASSIFIED REFORT

SUPPLEMENTARY NOTE: DESCRIPTORS: •Weapon systems, \*Life cycles, \*Cust analysis, Department of Defense, Logistics, Investments, Military budgets, Guides IDENTIFIERS: \*Cost estimates

This guide provides a DSARC/CAIG framework for rms guide provides a DSARC/CAIG framework for review of new weapon system life cycle operating and support (0 and S) cost estimates and describes methodologies and techniques that the Military Departments and the CAIG can use to devalop and record these estimates. (U)

### UNCLASSIFIED

DOC REPORT SIBLIGGRAPHY SEAPCH CONTROL NO. ZOMO?

AD-A001 713 15/5

NAVAL ELECTRONICS LAS CENTER SAN DIEGO CALIF

Telecommunications Equipment Low-Cost Acquisition Method (TELCAM).

DESCRIPTIVE NOTE: Technical document.
JUL 74 120P Leffler.R.:
REPT. NO. NELC/TD-335
PROJ: NELC-Z269

(U)

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: \*Military procurement. \*Communication equipment. Literature surveys. Environments. Costs. Life cycles. Low costs (U)

The report presents the information on which The report presents the information on miles TELCAM is based: the results of a literature survey and interviews with military and industrial personnal: an environmental study including test data on over 160 ships; and a life-cycle cost methodology. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A001 532

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS

Economic Comparison of Wood-Preservative Treated and Untreated 195mm Acmunition Boxes (U)

DESCRIPTIVE NOTE: Technical note. OCT 74 10° REPT. NO. SAO-Note-14 Eckman.Donalo R. :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Azmunition cases, \*Yood, \*Treatment, \*Cost analysis, Preservatives, Daterioration, Tropical regions, Life expectancy (U)

This study examined the economic consequences of the study examined the economic consequences of treating wooden ammunition boxes with a preservative to prevent rapid deterioration in tropical climates. The study was basically an expect devalue analysis presented in terms of cost-incifferent storage duration with life expectancy of the treated and untreated boxes as parameters. The results indicated that it would not be reasonable to store ammunition in untreated boxes.

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DDC REPORT BIBLIOGRAPHY SEAPCH CONTROL NO. ZOMO?

AD-A001 065

9/3

15/5 INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOG DIV

Electronics—X: A Study of Hil tary Electronics with Particular Reference to Cost and Reliability. Volume 2: Complete Reserve.

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DESCRIPTIVE NOTE: Final hept. Feb-Oct 73.

JAN 74 432P Gates.Howard P. Jr.:
Gourary.Banny S. :Deitchman.Seymour J.:
Rowan.Thomas C. :Welmer.C. David :1
REPT. NO. R-195
CONTRACT: DAPC.5-73-C-0200

### UNCLASSIFIES REPORT

SUPPLEMENTARY NOTE: See also recort dated Jan 74. AD-783 007. DESCRIPTORS: \*Electronics. \*Military applications. Costs. Reduction. Cost analysis.
Reliability/Electron.cs). Waintenance : 4:

The report identifies the current DOD and industria' policies, procedures, and practices in development, production, and operational support that most significantly influence the cost and reliability of military, electronics, and it recommends changes to reduce and control cost and to improve reliability. The report concentrates on five major, high-impact areas: (1) data collection and feedback. (2) requirements. (3) competition and management options. (4) reliability enhancement. and (5) maintenance training. Numerous other areas are discussed, and detailed recommendations are made in each (Author) made in each (Author)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A001 036

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ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 94%-96% R and D Curves and 67%-99% Production Curves. Volume 10.

(U)

DESCRIPTIVE NOTE: F nal rept., MAY 74 601P Johnso MAY 74 601P Johnson George V.; REP NO. TROSCOM-TR-74-11-Vol-10

### UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 9, AD/A-001 035
and Volume 11, AD/A-000 567.
DESCRIPTCRS: \*Army operations. \*Production
engineering. \*Cost analysis, lables(Data)
IDENTIFIERS: \*Quaternary S curves, \*Cost
quantity relationships. Cost actionships (U) quantity relationships, Cost estimates (U)

The Quaternary S-Curve was designed for cost-The Quaternary S-Curve was designed for cost-quantity adjustments necessary under thuse conditions: (1) when a cost estimate for a change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D phototype costs, R and D production costs, full scale production preproduction mode; costs, and full scale production first unit costs. The estimates in (1) are particularly useful in The estimates in (1) are particularly useful in negotiating changes to contracts. The relationships in (2) are useful in estimating Design To Unit Production Costs from cost-quantity data available in the R and D phase. This report contains: Table of 94% R and D curves; Table of 95% R and D curves; Table of 96% R and D curves.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A001 035

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ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 91%-93% R and D Curves and 67%-99% Production Curves. Volume 9.

(U)

MAY 74 599P Johnson.George V.: REPT. NO. TROSCOM-TR-74-11-Vol-9

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 8. AD/A-0n0 564 and Volume 10. AD/A-001 036.

DESCRIPTORS: \*Army Operations. \*Production engineering. \*Cost analysis. Tables(Data)

IDENTIFIERS: \*Quaternary S curves. \*Cost (U) quantity relationships. Cost estimates (U)

The quaternary S-Curve was designed for costquantity adjustments necessary under these conditions: (1) when a cost estimate for a Change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D prototype costs. R and D production costs. full scale production preproduction model costs. full scale production preproduction model costs. and full scale production first unit costs. The estimates in (1) are particularly useful in negotiating changes to contracts. The relationships in (2) are useful in estimating Design To Unit Production Costs from costmutity data available in the R and D phase. This report contains. Table of 91% R and D curves: Table of 92% R and D curves:

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A001 034

15/5 5/1

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 85%-87% R and D Curves and 67%-99% Production Curves. Volume 7.

MAY 74 599P Johnson,George V.; REPT. NO. TROSCOM-TR-74-11-Vol-7

### UNCLASSIFIED REPORT

Availability: Available in microfiche only. SUPPLEMENTARY NOTE: See also Volume 6, AD/A-000 562 supplementary NOTE: See also volume 6, AD/A and Volume 8, AD/A-000 564. DESCRIPTORS: \*Army operations, \*Production engineering: \*Cost analysis, Tables(Data) IDENTIFIERS: \*Quatenary S curves, Cost estimates, \*Cost quantity relationships (U) (U)

The Quaternary S-Curve was designed for cost-quantity adjustments necessary and these conditions: (1) when a Cost estimat. r a change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D prototype costs. R and D production costs. full scale production preproduction mode: costs, and full scale production first unit costs. The estimates in (1) are particularly useful in negotiating changes to contracts. The Design To Unit Production Costs from cost-quantity data ava: Lable in the R and D phase. This report contains: Tables of 85% R and D curves; Table of 86% R and D curves; Tables of 87% R and D curves.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMCT

AD-A001 033

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GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS

An Econometric Analysis of Volunteer Enlistments of Service and Cost Effectiveness Companison of Service Incentive Programs.

(11)

TE: Final rept. 1 Sep 73-30 Jun 74. DESCRIPTIVE NOTE: OCT 74 315P Grissmer.D. W. : Amey.D. M. : Arms.R. L. : Huck.D. F. : Imperial.F. F. : REPT. NO. 0AD=CR=66

CONTRACT: MDA903-74-C-0099

AD-A001 033

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Cost effectiveness. \*Recruiting. Cost analysis. Employment. Recruiters. Salaries. Volunteers, Time series analysis, Skills.
Mathematical models, Education
IDENTIFIERS: All volunteer military services. (U) (0) Bonuses, Unemployment

The primary purpose of this study was to determine the cost effectiveness of various enlistment programs in attracting additional volunteers to each Service. The analysis was also aimed at determining the effects of changes in youth unemployment rates, college entrance patterns and various Service manpower policies on volunteer enlistments in each Service as well as the interservice effects of one Service's programs on enlistments in other services. Three different methods of analysis have been used to determine program and policy effects. An econometric model of volunteer enlistments by state using explanatory variables including the number of recruiters, youth unemployment rate, military/civilian wage and college entrance rates was used with 1972 and 1973 enlistment entrance rates was used with 19/2 and 19/3 entistment data. A monthly econometric time series model was also used with volunteer data in the CY71-CY73 time period with explanatory variables including military/civilian wage, number of recruiters, bonus variables, print media advertisements, unemployment rates and inter-Service variables. Finally, Survey data were analyzed to estimate effectiveness of the bonus. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 25507

AD-A001 015

Parameter estimation

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF QUANTITATIVE BUSINESS ANALYSIS

Calculation of the Cost  $e^{\epsilon}$  Warranty Policies as a Function of Estimated Life (U) Distributions.

DESCRIPTIVE NOTE: Technical progress rept.
OCT 74 27P Blischke.Wallace R
Scheber, Ernest M.;
REPT. NO. USC-WP-1-10-1974
CONTRACT: N00014-67-A-0269-0028 Blischke.Wallace R. : PROJ: NR-042-323

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Consumers. \*Purchasing, Cost analysis, Life expectancy, Estimates, Distribution (U) IDENTIFIERS: \*Warranties, \*Consumer goods, \*Free replacement warranties, \*Pro rata warranties. (U)

Two types of warranties are analyzed. These are the free-replacement warranty, under which failed items are replaced free of charge until a specified items are replaced free of charge until a specified total operating time has been achieved, and the promata warranty, under which items which fail prior to a specified time are replaced at promata cost to the buyer. Both the buyer's and seller's points of view are considered. The basis of the analysis is a comparison of warrantied and unwarrantied (otherwise identical) items with regard to long-run cost to the buyer and long-run profit to the seller. (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A000 823 15/3 15/7

14/1

ARMY MATERIEL COMMAND REDSTONE ARSENAL ALA SAM-D PROJECT

A New Methodology for Analytical Cost Effectiveness Comparisons of Air Defense Systems.

(U)

DESCRIPTIVE NOTE: Final rept..
OCT 74 32P McLaughlin.Thomas R
Souvenir.Stanley J. :Churchill.Robert E. :
Meaders.Thomas J. ; McLaughlin. Thomas R. :

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Antiaircraft defense systems.
\*Aircraft defense systems. \*Cost effectiveness.
Air defense, Cost analysis. Air to air missiles. Surface to air missiles. Kill propabilities. Interception probabilities. Aerial warfare. Cost analysis IDENTIFIERS: Scenarios

(11)

This paper presents a new methodology for analytical cost effectiveness comparisons for air defense systems. The scenario used for evaluation is a typical deployment of an Army in the Field. No specific geographical location or terrain need be specified. Air Defense systems are described by their Single Shot Engagement Kill Probability. PK, their surveillance and intercept footprints, their reaction times and snot-to-shot time constraints, their multiple simultaneous engagement. MSE, capability, their procurement cost, and their ownership and maintenance costs. On an equal total cost of ownership for a ten year basis. this methodology gives quick comparisons of the relative effectiveness of competitive systems. The methodology compares favorably with more detailed effectiveness comparisons using simulated wars such as TACOS.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 AD-A000 567 5/1 14/1 15/5 ARMY TROOP SUPPORT COMMAND ST LOUIS MO Tables of Quaternary S-Curves Based on 97%-99% R and D Curves and 67%-99% Production Curves. Volume 11. (U) DESCRIPTIVE NOTE: Final rept.,
MAY 74 605P Johnson.George V.;
REPT. NO. TROSCOM-TR-74-11-Vol-111

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 8. AD/A-000 DESCRIPTORS: \*Army operations, \*Production engineering, \*Cost analysis, \*Learning curves, Statistical data, Management information systems. Research management, Production control, Costs.
Army budgets, Logistics
IDENTIFIERS: \*Cost quantity relationships

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT AD-A000 564 5/1 14/1

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 88%-90% R and D Curves and 67%-99% Production Curves. Volume 8.

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DESCRIPTIVE NOTE: Final rept.. MAY 74 600P Johnson.George V.; REPT. NO. TRJSCOM-TR-74-11-Vol-8

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 6. AD/A-000 562 and Volume 11. AD/A-000 567. DESCRIPTORS: \*Army Operations. \*Production engineering. \*Cost analysis. \*Learning curves. Statistical data. Management information systems. Research management. Production control. Costs. Army budgets. Logistics Army budgets. Logistics IDENTIFIERS: \*Cost quantity relationships

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 562 5/1 14/1

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 82%-84% R and D Curves and 67%-99% Production Curves. Volume 6.

DESCRIPTIVE NOTE: Final rept..

MAY 74 60:P Johnson.George V.;
REPT. NO. TROSCOM-TR-74-11-Vo!-6

# UNCLASSIFIED REPORT

Availability: Available in microficne only.

SUPPLEMENTARY NOTE: See also Volume 5, AD/A-000 561 and Volume 8, AD/A-000 564.

DESCRIPTORS: \*Army operations, \*Production engineering, \*Cost analysis, \*Learning curves, Statistical data, Management information systems, Research management, Production control, Costs. Army budgets, Logistics

IDENTIFIERS: \*Cost quantity relationships

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD-A000 561 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quarternary S-Curves Based on 79%-81% R and D Curves and 67%-99% Production Curves. Volume 5.

DESCRIPTIVE NOTE: Final rept..

MAY 74 200P Johnson.George V.:
REPT. NO. TROSCOM-TR-74-:1-Vol-5

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4. AD/A-000 560 and Volume 5. AD/A-000 562.

DESCRIPTORS: \*Army operations. \*Production engineering. \*Cost analysis. \*Learning curves.

Statistical data. Management information systems. Research management. Production control. Costs. Army budgets. Logistics

IDENTIFIERS: \*Cost quantity relationships

The Quaternary S-Curve was designed for costquantity adjustments necessary under these conditions: (1) when a cost estimate for a change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D prototype costs. R and D production costs, full scale production preproduction model costs, and full scale production first unit costs. The estimates in (1) are particularly useful in negotiating changes to contracts. The relationships in (2) are useful in estimating Design To Unit Production Costs from costquantity data available in the R and D phase. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 560 5/1 14/1 15/5

ARM! TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quarternary S-Curves Based on 76%-99% Production Curves. Volume 4. (U)

DESCRIPTIVE NOTE: Final rept..
MAY 74 601P Johnson, George V.:
REPT. NO. TROSCOM-TR-74-11-vol-4

### UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 3, AD/A-000 559
and Volume 5, AD/A-000 561.
DESCRIPTORS: \*Army operations, \*Production
engineering, \*Cost analysis, \*Learning curves.
Statistical data, Management information systems,
Research management, Production control, Costs,
Army budge:3, Logistics
IDENTIFIERS: \*Cost quantity relationships

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A000 559 5/1 14/1 15/5

ARMY TROOP SUPPORT COWMAND ST LOUIS MO

Tables of Quarternary S-Curves Based on 73%-75% R and D Curves and 67%-99% Production Curves. Volume 3. (U)

DESCRIPTIVE NOTE: Final rept..

MAY 74 601P Johnson.George V.:

REPT. NO. TRCSCOM-TR-74-11-Vol-3

## UNCLASSIFIED REPORT

Availability: Available in microfiche only.

SUPPLEMENTARY NOTE: See also Volume 2, AD/A-000 558 and Volume 4, AD/A-000 560.

DESCRIPTORS: \*Army operations, \*Production engineering, \*Cost analysis, \*Learning curves.

Statistical data, Management information systems. Research management, Production control. Costs. Army budgets, Logistics

IDENTIFIERS: \*Cost quantity relationships

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A000 558 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 70%-72% R and D Curves and 67%-99% Production Curves. Volume 2.

DESCRIPTIVE NOTE: Final rept., MAY 74 601P Johnson, George V.; REPT. NO. TROSCOM-TR-74-11-Vol-2

### UNCLASSIFIED REPORT

Availability: Available in microfiche only. Availability: Available in microfiche only.

SUPPLEMENTARY NOTE: See also Volume 1. AD/A-000 557

and Volume 3. AD/A-000 559.

DESCRIPTORS: \*Army operations. \*Production
engineering. \*Cost analysis. \*Learning curves.

Statistical data, Wanagement information systems.
Research management, Production control, Costs.

Army budgets. Army budgets, Logistics
IDENTIFIERS: \*Cost quantity relationships (U) (U)

#### UNCLASSIFIED

DDC REPORT BIBL.OGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 557 14/1

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 67%-69% R and D Curves and 67%-99% Production Curves. Volume 1.

DESCRIPTIVE NOTE: Final rept.. MAY 74 501P Johnson.George V.: REPT. NO. TROSCOW-TR-74-11-Vol-1

### UNCLASSIFIED REPORT

Availability: Available in microfiche only. SUPPLEMENTARY NOTE: See also Volume 2. AD/A-000 558. DESCRIPTORS: \*Army operations. \*Production engineering. \*Cost analysis. \*Learning curves. Statistical data. Management information systems. Research management. Production control. Costs. Army budgets. Logistics IDENTIFIERS: \*Cost quantity relationships (U) (U)

As the result of the introduction of changes to an operating production system, there are three separate and distinct costs that must be considered: (1) the cost of the effect of the changes. (2) the cost of the changes, and (3) the basic production cost had the changes not occurred. Cochran developed an S-Curve/log-linear curve relationship for determining item (1) above. relationship for determining item (1) above.
These tables can be used to estimate items (1).
(2) and (3) above. The tables may also be used to estimate the R and D prototype costs. R and D production costs, the full scale production preproduction model costs, the full scale production first unit costs. the state-of-the-art, and/or the R and D and production learning rates (curves). (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

17/7 AD-A000 483 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Three Life Cycle Cost Models for Imertial (U) Systems.

DESCRIPTIVE NOTE: Final rept.,
APR 74 42P Adel,Robert E. :Bonner,
William J. :Gibson,Keith J. : REPT. NO. AGMC-74-011-2

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Inertial guidance, \*Cost analyses. \*Logistics planning, Avionics. Life cycles,
Mathematical models, Maintenance, Acquisition,
Trade off analyses. Air force research
IDENTIFIERS: \*Life cycle costing, Cost models, (U)

Logistics management. Omega navigation systems (U) The purpose of this report was to present three different Life Cycle Cost models for inertial different Life Cycle Cost models for inertial systems to the membership of the Life Cycle Cost Task Group of the Joint Services

Data Exchange for Inertial Systems for the purpose of familianization prior to the April 1974 meeting of that Group in Anaheim, California. The report describes three life cycle cost models that have been used in economic analysis of inertial navigation systems. (Author)

### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD-A000 399 1/3 14/1

GENERAL DYNAMICS SAN DIEGO CALIF CONVAIR AEROSPACE

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume III. Cost Data Sase.

DESCRIPTIVE NOTE: Interim rept. Jul 72-Nov 73.

JUN 74 156P Kenyon.R. E.:

REPT. NO. CASD-AFS-73-001

CONTRACT: F33615-72-C-2083

PROJ: AF-1368 TASK: 136802

relationships

MONITOR: AFOOL 12-73-129-Vol-3

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Dec 73. AD-783 639. DESCRIPTORS: \*Aircraft. \*Airframes. \*Costs.

Estimates. Cost analysis. Aerodynamic control surfaces. Composite structures. Manufacturing. Computer programming. Data bases IDENTIFIERS: Design to cost. Cost estimating

This volume presents the cost data used as the basis for developing the trade cost estimating technique for aerodynamic surfaces. Other data that has become available in the course of the study is also presented. Raw data and organized data are presented. An ultimate objective of the study with respect to the cost data base is to present back-up data for each individual CER, including both trade study and system costing relationships. The cost trend data that is included was produced under an

amendment to the contract. Its intent was to provide a data base for Cost estimate evaluation. (Author)

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF

A Case Study of the Usefulness of the Cost/ Schedule Control System Criteria (C/

DESCRIPTIVE NOTE: Master's thesis. SEP 74 136P Zbylut.Robert S. : REPT. NO. GSM/SM/745-15

#### UNCLASSIFIED REPORT

DESCRIPTORS: (\*Management planning and control, \*Military procurement), (\*Monitoring. Contracts), (\*Cost effectiveness, Department of Defense), Management, Planning, Costs, Research management, Human relations. Scheduling, Efficiency, Management engineering, Budgets, Operations research, Theses IDENTIFIERS: C/SCSC(Cost/schedule control system criteria). \*Cosi/schedule control system criteria

The Cost/Schedule Control System Criteria (C/SCSC) is the present standard method used by the department of Defense to monitor cost and progress of major acquisition programs. This research is a case study of one contractor and one such program. The objective is to determine the usefulness of C/SCSC to the management of the program. C/SCSC consists of a set of criteria which the internal management system of the contractor must meet. This research examined the general requirements for a system to comply with C/ SCSC and examined the system of a single contractor. The three primary advantages from using C/SCSC are improved communications between managers in all organizations, improved visibility into the cost, progress, and management activities of the contractor, and forward planning of all required work. General limitations on usefulness of C/SCSC included problems concerning the meaning and timeliness of reports submitted, difficulty in analyzing the information, difficulty in determing schedule purformance and difficulty in integrating the Jata with technical performance. ake.

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CDC REPORT BIBLICGYAPHY SEARCH CONTROL NO. ZONOT

AD- 920 774

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Military Occupational Specialty Training Cost Handbook (MOSB). Volume II Commissioned and Warrant Officers MOS's.

(0)

MAY 74 3742 Carnahan.William P. :

#### UNCLASSIFIED : SPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-920 773.. DESCRIPTORS: (\*Army training. \*Cost analysis). (\*Officer personnel. \*Costs). Statistical data.
Army personnel. Job analysis. Specialists. Army budgets, Missions, Skills, Classification. Tables(Data), Manopooks, Arm operations, Careers, Arty procurement, Field army, Military reserves. Schools. Courses. Education) IDENTIFIERS: \*Warrant officers. Noncommissioned officers. Benuses. #OS(Military Occupational Specialty). Military Occupational Specialty

Volume I of this handbook presented rationale. methodology, and utilization statements as they referred to the enlisted MOS's. This section presents the same type of information for the Officer Corps and for warrant Officers. The format remains the same and the uses remain unchanged. Certain unique features to these training costs are provided, including both similarities and differences in these MOS training Costs.

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AD- 920 773

OFFICE OF THE COMPTROLLER OF THE APMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Military Occupational Specialty Training Cost Handbook (MOSB). Volume I. Enlisted MOS's.

MAY 74 577P Carnaban William P. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-920 774L.
DESCRIPTORS: (\*Army training, \*Cost analysis).
(\*Enlisted personnel, \*Costs). Statistical data. (\*Enlisted personnel, \*Costs), Statistical data. Handbooks, Army personnel, Job analysis, Specialists, Army budgets, Missions, Skills, Classification, Tables(Data), Army Operations, Careers, Army procurement, Field army, Willtary reserves, Schools, Courses(Education) IDENTIFIERS: MOS(Military Occupational Specialty), Military Jocupational Specialty, (U) {U}

Cumulative training investment cost per man is shown for each Army Military Occupational Specialty (MOS). The investment data also include cumulative weeks of formal training. The costs shown identify the appropriation subtotals for Military Personnel, Army (MPA), Operation and Maintenance, Army (DMA) and Procurement. Costs are subidentified as variable, weighted costs are subjectified as variable, weighted average variable, fixed, and total. Cumulative subtotals are shown at each Skill level in the assumed career progression that is reflected for each MOS. The costs reflect FY 1974 price escalation levels, and fixed and total costs per man are based on FY 1974 output.

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DDC REPORT BIBLIOGRAPH? SEARCH CONTROL NO. ZOMOT

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RCA GOVERNMENT AND COMMERCIAL SYSTEMS CAMDEN N J

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Frocedures and Methodology for Logistics Supportability Test and Evaluation.

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DESCRIPTIVE NOTE: Final rept. 11 Apr-31 Dec 73. MAR 74 332P
REPT. NO. CIF/R-2
CONTRACT: F33600-73-C-0464

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendices. AD-918 946L. DESCRIPTORS: (\*Logistics support. Air force operations), (\*Costs, Logistics support), Management p'anning and control, Military requirements. Maintainauility, Reliability. Standardization, Test methods. Air Force procurement. Scheduling. Life cycles. Data acquisition. Trade off analyses. Command and control systems. Flow charting. Specifications. Weapons. Methodology

This document prescribed the procedures and methodology for logistics support test and evaluation. The purpose is to present procedures necessary to implement the AFLC independent Test and Evaluation requirements of AFR 80-14. The procedures and methodology presented cover planning, specifying, testing, evaluating, and reporting of logistics supportability and also includes measures/ evaluation criteria for logistics support. Ecgistics support cost. and Operational reliability and maintainability. (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 916 001 14/4

BOEING CO SEATTLE WASH

Life Cycle Cost/System Effectiveness Evaluation and Criteria.

Walker.G. A. :

REPT. NO. D180-17648-1

### UNCLASSIFIED REPORT

DESCRIPTORS: (\*Life cycles, Costs), (\*Cost analysis, State of the art), (\*Cost effect:veness, Management planning and control), Reliability, Maintenance, Auntainability, Logistics support. Acquisition, Procurement, Operatior, Computer programs, Data bases, Quality assurance, Planning, Manpower, Training, Research management, Aircraft, Guided missiles, Sibliographies IDENTIFIERS: Design, Systems worth, \*Life cycle (U)

(U)

This document contains results of an independent research and development task on life cycle cost performed by Boeing Aerospace Company. This seven month study is Phase I of a planned continued effort and includes discussion on life c; cle costi current state-of-the-art. a planned approach and recommendations on where emphasis should be placed to effectively perform cost analysis studies on nr systems. Included is a bibliography of 160 documents relevant to life cycle Cost, and an evaluation of 14 computer programs which provided the data base from which cost consideration elements and new criteria were developed. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 913 440

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NOAH (J WATSON) ASSOCIATES INC ALEXANDRIA VA

Estimating Aircraft Acquisition Costs by Parametric Wethods.

6111

DESCRIPTIVE NOTE: Final rept.. SEP 73 94P Noah.J. W. :Daniels.J.
M. :Day.C. F. :Eske.H L. :
REPT. NO. FR-103-USN
CONTRACT: NCC014-73-C-0320

## UNCLASSIFIED REPORT

DESCRIPTORS: ( \*NAVAL PROCUREMENT, NAVAL AIRCRAFT). DESCRIPTORS: (\*NAVAL PROCUREMENT, NAVAL AIRCRAFT).
(\*COSTS, NAVAL AIRCRAFT). REGRESSION ANALYSIS.
CONTRACTS, MATERIALS, AIRCRAFT ENGINES.
MACHINE TOOLS, LABOR, GAS TURBINES, ELECTRONIC
EQUIPMENT, AERODYNAMIC CHARACTERISTICS
IDENTIFIERS: AVIONICS, COST ESTIMATES, COST ANALYSIS

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This report presents summary data on airframe and engine characteristics and acquisition costs. and equations resulting from the application of multiple regression analysis. Cost and characteristic data are presented in summary form for 35 pircraft Birframes and for 20 turbine engines. The cost data is divided between recurring and non-recurring to aid analysis. Equations that relate cost to physical.

performance and program characteristics are given with appropriate indicators of their 'goodness of fit'.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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14/1

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for joint Tactical Communications, Volume III. Life Cycle Costing.

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DESCRIPTIVE NOTE: Final rept.,
AUG 74 135P Bellanca.Thomas J.; AUG 74 135P Bellam REPI. NO. TTO-ORT-032-74-Vol-3

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Tactical communications. \*Cost effectiveness. Costs. Life cycles. Cost analysis. Trade off analyses. Economics

The purpose of Volume III is to provide the necessary guidelines and methodology for the preparation of Life Cycle Costs that are used in cost effectiveness analysis of tactical communication programs and in the optimization of communication system/equipment design. The Life Cycle Costing Volume contains the following information: The Basic structure of the LCC model; definitions of all the cost elements involved in the acquisition and ownership of communication equipment: general and specific TRI-TAC recommendations concerning certain ground rules and assumptions to be used in LCC analysis of TRI-TAC related programs; equations with appropriate cost factors to calculate operating and support costs; formats for the presentation of the cost data. In addition, general guidelines and information are presented on the treatment of learning curves. discounting and inflation in LCC analysis. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 787 425

17/1 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Parametric Cost Estimating with Applications to Schar Technology.

(U)

DESCRIPTIVE NOTE: Technical rept..
cco 73 92P Willer, Bruce M. :Sovereign. SEP 73 92P Michael G. : REPT. NO. NPS-552073091A

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Sonar equipment. \*2.litary procurement. . Cost analysis. Watnematical prediction. Decision making. Statistical analysis. (4) Learning curves IDENTIFIERS: \*Cost overruns. \*Cost estimates

The problem of cost overruns has been prevalent in the acquisition of acapon systems. Parametric cost analysis was instituted by the Department of Defense as a means of obtaining accurate initial cost estimates. The parametric approach uses cost estimating relationships (CER) in the development Of cost predictions. An algorithm is presented for the development of parametric cost estimates obtained from CER's. Fictitious sonar data is used to provide an example of the application of the algorithm. Input and output CER's are developed and used in the construction of a parametric cost estimate for a proposed submarine sonar system. The problems of data collection, normalization, and aggregation are discussed. Numerous linear regression techniques are applied to the data to optain the final cost models. Uncertainty in the final cost estimate due to the learning curve effect is discussed along with the uncertainty contained in the cost prediction interval. (Author)

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RAND CORP SANTA MONICA CALIF

Bias in Initial Cost Estimates: How Low Estimates Can Increase the Cost of Acquiring Weapon Systems. (u)

JUL 74 29P REPT. NO. R-1467-PA/E Large.Joseph P. :

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Weapon systems. \*Williamy procurement. \*Cost analysis, Contracts, Decision making, Test methods

(u) IDENTIFIERS: •Cost estimates. Cost overruns (U)

A small sample of wcapon systems was investigated to determine whether a definite cause—and-effect relationship could be established between low initial cost estimates and subsequent cost increases. This report describes the result of that investigation and offers a few observations on now DoD might adapt defense procurement procedures to deal with problems arising from low estimates. The observations are intended to be suggestive, not definitive. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 787 367 5/12

NAVAL "OSTGRADUATE SCHOOL MONTEREY CALIF

Comparative Analysis of Capital Equipment Bidgeting Systems in Health Care Institutions.

DESCRIPTIVE NOTE: Master's thesis. JUN 74 126P Talcott.Bruce Edwin :

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Wedical equipment. \*Hospitals. Budgets, Costs, Economics, Construction, Operation, Economics, Theses IDENTIFIERS: \*Health care costs, Hospital (U) administration. Health facilities (11)

The thesis presents a study of capital equipment investment budgeting procedures in the health care industry. It discusses capital equipment investment philosophy in general, and addresses a few of the comtemporary proclems and corresponding of the comtemporary proclems and corresponding solutions contained in current health-care literature. The thesis also describes the specific Capital equipment Dudgeting systems of three segments of the health-care industry: Navy hospitals. Veterans Administration hospitals, and nonfederal hospita's. Three case studies in Capital equipment budgeting - Naval Regimal Medical Center. Cakland: Veterans Administration Mospital, Martinez: and Fairmont General Hospital, Alameda County - are presented to illustrate each of the three segments addressed. (Autnor) (U)

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13/2 5/3

NATIONAL BUREAU OF STANDARDS WASHINGTON D C INST FUR APPLIED TECHNOLOGY

Cost Sharing for Shoreline Protection.

DESCRIPTIVE NOTE: Contract rept. AUG 74 73P Warshall Warshall, Harold E. :

AUG 74 73P REPT. NO. NBSIR-73-294 MONITOR: IWR CR-74-7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: \*Shores, \*Environmental protection. \*Costs. Coastal regions. Econom.c #cdels. Land use. Breakwaters, Structures. Engineering. Hurricanes. Beach erosion. Floods. Damagu. Federal budgets. Offshore. Army research IDENTIFIERS: \*Shore protection. \*Coastal engineering. \*Cost sharing (U)

The nation's shorelines are being eroded by high winds and waves. Nonfederal interests have winds and waves. Nonteceral interests have traditionally received federal help in the form of cost sharing for protective structures. The study provides the Army Corps of Engineers with an evaluation of alternative cost—sharing rules for shoreline protection with respect to efficiency, equity and administrative feasibility. Existing protection willer and rescribed for humilates. cost-sharing rules are described for hurricane, beach erosion, and emergency protection. The present cost-sharing system appears to induce local interests to choose costly techniques of protection, e.g., engineering rather than management techniques, and overbuilt projects in terms of the efficient scale. (Modified author abstract)

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DOC REPORT SIBLIDGRAPHY SEARCH CONTROL NO. ZONOT

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17/7

14/1 AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION CHIC

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inential Systems Quanterly Meeting Held at Cambridge, Wass., on 19 August 1974.

£ 122

DESCRIPTIVE NOTE: Final rept. AUG 74 40P REPT. NO. 4525-74-028

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 13 Jun 74.

DESCRIPTURS: \*Inertial systems. \*Life cycles.

\*Cost analysis. \*Meatings. Inertial navigation.

Costs. Acquisition. Maintenance, Management

premning and Control. Algorithms IDENTIFIERS: Design to cost (u)

These proceedings describe the 4th quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. This meeting was held 19 Aug 74. in Campridge. WA. The conference proceedings include a foreward by the Task Group Chairman, Fussell B. Stauffer Advantional presentations by Task Group moers, and the proceedings of the newly formed Executive Soand including plans for the 1974-1975 year. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 216

AIR FORCE INST OF T' H WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

The Impact of Direct Cost Funding on Test Center Management. (b)

DESCRIPTIVE NOTE: Master's thesis.
SEP 74 106P Peterson, Walter G. , Jr;
REP1. NO. GSM/SM/745-12

## UNCLAS, IFIED REPORT

DESCRIPTORS: \*Costs, \*Management planning and control, \*Test facilities, Errors, Deficiencies, Problem solving, Labor, Requirements, Organizations, Theses
IDENTIFIERS: \*Direct costs

Budgetary procedures cause reduction of test Budgetary procedures cause reduction of test facility total obligation authority when a prolifam is cancelled in the budget review. Users face loss of T and of funds on programs that slip. Adoption of a termination cost based on fixed costs should help. This study showed the Possibility of inaccurate cost estimates dupl to poorly defined test requirements, use of inaccurate wage raths, ignoring cost growth, and poor organizational structure. Solution of related problems is discrised. (Modified author abstract) (U)

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DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Criter's for Evaluating the Cost Effectiveness of Optical Character Recognition Equipment in Base Telecommunications Centers.

(11)

DESCRIPTIVE NOTE: Master's thesis.
AUG 74 96P Johnston.William B. :Abbott. Freeland K. REPT. NO. SLSR-36-748

# UNCIASSIFIED REPORT

DESCRIPTORS: \*Optical character recognition.
\*Telecommunication circuits. \*Communications networks. \*Cost effectiveness. Communications central. Air Force. Message processing.

(U)

The objective of this research was to develop and demonstrate a method for calculating the cost effectiveness of Optical Character Recognition Ecuipment (GCRE) in military communications centers. Six AFLC bases were studied and a breakeven cost for OCRE was developed for four of the bases: Wright-Patterson. Tinker. Robins. and Hill. Elements of cost of the current system considered were personnel, teletype equipment, and paper. No survey was made of OCR devices on the market to see if a specific device would be cost effective: rather, prices at which OCR devices of various capabilities would become cost effective were developed. Single and multifont OCR capabilities in both 10 and 12-pitch were considered. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 195 17/7 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Kennebunkport, Maine, on 11-13 June

DESCRIPTIVE NOTE: Final rept.,
JUN 74 128P Meitzler, Thomas;
REPT. NO. AGMC-74-020

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 19 Aug 74. AD-787 220 and report dated 25 Apr 74. AD-785 390. DESCRIPTORS: \*Inertial systems, \*Life cycles. \*Cost analysis, \*Meetings, Inertial navigation, Costs, Acquisition, Maintenance, Management planning and control, Algorithms IDENTIFIERS: Design to Cost (U)

These proceedings describe the third quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. This meeting was held 11~13 June, 1974, in Kennebunkport, Maine, The Task Group Chairman, Russell M. Genet, educational presentations by several Task Group members, and summaries of three working groups. These three groups derived first-cut algorithms for the improved life cycle cost model in the areas of:
(1) Research, Development, Test and
Evaluation; (2) Acquisition; (3)
Operation and Maintenance. (Author) (U)

#### UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 188

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AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Avionics Cost Reduction Through Improved

1 111

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DESCRIPTIVE NOTE: Final rept.. MAY 74 8P REPT. NO. AGMC-74-024 Genet.Russell M. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Avionics. \*Maintenance. Test methods. Costs. Reduction, Economics. Inertial systems. Gyroscopes, Repair

Although cost has always been a consideration in the selection and use of tests for the repair of avionics, the present widespread use of very expensive avionics has necessitated refinements in testing with the goal of reducing repair costs. The relationship between testing and repair costs is rather complex, and only recently has it come under close scrutify. It is the purpose of this paper to examine the recent analytic work relating avionics testing to repair costs. This paper covers the most important aspects of this body of research on the relationship between avionics testing and repair costs with the hope that the reader will be able to apply this research to reducing the cost of repairing his own avionics. A summary and list of references is provided at the end of the paper. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 787 183 15/3 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Summary and Analysis of Selected Life Cycle Costing Techniques and Models. (U)

DESCRIPTIVE NOTE: Master's thesis. AUG 74 182P Billie E., Jr; REPT. NO. SLSR-18-74B Dover. Lawrence E. : Oswald.

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems, \*Life cycles, \*Logistics planning, \*Bibliographies, Costs. Taxonomy, Reliability, Maintainability, Cost effectiveness, Accounting, Models, Estimates, Simulation, Theses
IDENTIFIERS: \*Life cycle costing, \*Cost models, (U) (U) \*Logistics management

Operational costs continue to recur throughout the life of a weapon system and normally represents the majority of life cycle costs. Presented are an majority of life cycle costs. Presented are in 'Annotated Bibliography of Selected Life Cycle Costing Literature' and a 'Taxonomy of Selected Life Cycle Cost Models'. The Annotated Bibliography is sectionalized into six areas: Directives and Guides; General Philosophy and Methodology; Reliability and Maintainability; Cost-Effectiveness; Cost Models; and Case Studies and Technical Reports. The Taxonomy discusses six types of life cycle cost models including accounting, cost estimating relationship, simulation, failure-free warranty, reliability, and economic analysis models. One conclusion is that awareness of life cycle costing concepts results in better planning and decisionmaking. (Modified author abstract) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 045 5/3 5/1

ARMY MATERIEL COMMAND \*EXARKANA TEX INTERN TRAINING CENTER

Engineering Economic Analysis of Alternatives Using Benefits as Criteria for

DESCRIPTIVE NOTE: final rept..

MAR 74 93P Motichko.Michael C. :
REPT. NO. USAMC-ITC-02-08-73-110

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Economics. \*Decision making. Substitutes. Costs. Benefits IDENTIFIERS: Benefit cost analysis. Delphi technique. \*Economic analysis. \*Alternatives (U)

This research develops an effective procedure for the engineering economic analysis of alternatives using their different or unequal benefits as the decision chiteria. The procedure calls for the determination of three numerical values. The Relative Weights show the relative importance of the benefits. The Delphi Technique is used to Obtain the assignments of the Relative Weights from a group of experts, and convert them to a general consensus of expert opinion. The Alternative Ratings are numerical values from 0.00 through 10.00, that reflect how well each alternative satisfies each benefit. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 786 757 10/1 10/2

BOOZ-ALLEN AND HAMILTON INC BETHESDA MD

Alternative Strategies for Optimizing Energy Supply, Distribution, and Consumption Systems on Naval Bases. Volume II. Advanced Energy Conservation Strategies. (U)

DESCRIPTIVE NOTE: Final rept. Nov 73-Jan 74.

JAN 74 231P Consnet. : Nicholas.J.;
Nichols.J.; Wulfinghoff,D.; Mateyka.J.;
CONTRACT: N62399-73-C-0029
MONITOR: CEL CR-74.007

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See zlso AD-777 471. DESCRIPTIONS: Sering management. \*Naval shore facilities. Solar heating. Fuel cells.

Transportation, diet engines, Technology. Cost effectiveness, Energy conservation. Cost analysis. Benefits, Thermionic converters. Solar collecto IDENTIFIERS: Cost benefit analysis. Electric power generation. Wind power, Solar air conditioning. Photovoltaic cells (U)

The report describes five advanced strategies for optimizing energy supply, distribution, and consumption systems on naval bases: (1) consumption systems on naval bases: (1)
Solar energy applications; (2) automated
building control and monitoring systems: (3)
electrochemical sources—fuel cells; (4) advanced
transportation technology; and (5) total energy
systems. For each advanced strategy, the report
contains a technology assessment, a discussion of
applicability to the Navy, a discussion of costs
and benefits, and recommendations for Navy
implementation. (Modified author abstract) UNCLASSIFIED

DDC REPORT BISLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 786 652 5/9 14/1

RAND CORP SANTA MONICA CALIF

Cost and Efficiency in Military Specialty (U) Training.

JAN 74 34P Gay.Robert M. : Nelson.Gary REPT. NO. P-5150

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented to the Annual Department of Defense Cost Research Symposium (8th).
Warrenton, Va.. 7 Nov 73.
DESCRIPTORS: \*Military training, \*Air force personnel. \*Cost effectiveness. Manpower Utilization. Specialists. Investments, Value. Aircraft maintenance. Attitudes(Psychology) (U)

The paper focuses on the issue--specialty training for first-term enlisted personnel--and deals briefly with the relationship between this topic and other aspects of the efficient management of military aspects of the efficient management of military specialties. The conceptual framework, or methodology, for evaluating specialty training which has been developed at Rand considers the costs of both formal and on-the-job training as well as the returns to training for first-term enlisted personnel. This methodology was pilot-tested using members of one Air Force specialty, and results of that study are described. In the pilot study average costs and returns to training were estimated, and, in addition, estimates were made of the relationship between individual attributes and the cost of training.

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RAND CORP SANTA MONICA CALIF

Considering the Cost of DDD Personnel: A Look at Some Issues Requiring Further Analysis.

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JAN 74 21P Beltramo, Michael N. : REPT. NO. P-5166

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Department of Defense. \*Manpower. \*Costs, Personnel management, Civilian personnel, Military personnel, Substitutes, Reviews (U) IDENTIFIERS: Civilianization (U)

The paper considers the rising personnel Cost of COD and discusses the cost issues related to the substitution of civilians for military personnel. While most recent research has sought to define and accurately measure the costs of both military and civilian personnel, the author states that this should be only the initial point of departure and that any decision to proceed with civilianization should consider both trends which are external to but affect the issue together with the impact that a decision for civil:anization might have upon the current relative costs of civilian personnel. (U)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 786 551

14/1 5/1 15/5

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN

Computer-Based Specifications: Cost Analysis Study.

(U)

DESCRIPTIVE NOTE: Final cept..

AUG 74 18P POSKUS.Uldis R.:

REPT. NO. CERL-TR-P-25

PRGJ: DA-4-A-0612121-A-891

TASK: 4-A-0612121-A-89106

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cost analysis. \*Data processing. Construction. \*Specifications. Magnetic tape.
Typewriters. Personnel. Reviews. Computer applications. Optimization. Time studies. Benefits. Savings IDENTIFIERS: Army Corps of Engineers

(U) (U)

The computer-based specifications cost analysis study measured the absolute and relative efficiency of three methods of specification preparation: Conventional typewriter base agnetic tape selectric typewriter (MTST) based, and computer based. The computer-based method employed a keyboard/printer terminal linked to a time-sharing computer, using a text-editing computer program. computer, using a text-editing computer program. The test procedure involved a controlled.
repetitive preparation of representative samples of six Corps of Engineers guide specifications.
The results indicate: (1) the computer-based method costs are 55 percent of MTST method costs and 39 percent of conventional typewriter method costs: (2) MTST costs are 72 percent of typewriter costs. (Modified author abstract) abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Analysis of Overhead Cost for a Defined Cost Center in the Lake City Army Ammunition Plant Using Regression Analysis.

DESCRIPTIVE NOTE: Final rept.,
MAY 74 73P Hurta. Hurta.Nicholas W. ; MAY 74 73P Hurta,Ni REPT. NO. USAMC-ITC-02-08-73-107

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Military facilities. \*Costs. Army. Regression analysis. Ammunition, Allocations. Computer applications (U) IDENTIFIERS: \*Indirect Costs, Cost estimates (U)

Generally, the purpose of this research paper is twofold: (1) it develops a procedure by which overhead costs can be analyzed; (2) it applies overhead costs can be analyzed; (2) it appression analysis as the analytical means of determining the volume measurement that best correlates with overhead cost of a cost Center using available production data. Specifically, this research paper investigates a defined cost center in the Lake City Army Ammunition Plant and: (1) determines that standard labor dollars is the best volume measurement for the cost center; (2) establishes two relationships between overhead cost and standard labor dollars that could be used in overhead cost estimation. (Author) (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 786 501

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ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Life Cycle Cost Study of Army Spectrometric Oil Program (ASDAP).

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DESCRIPTIVE NGTE: Final rept.. APR 74 59P Yartin.Henry L.: APR 74 59P Yartin.H REPT. NO. USAMC-ITC-02-08-73-018

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Costs. \*Atomic spectroscopy. \*Dils. Models. Life cycles. Feasibility studies.
Chemical analysis. Spectrometry
IDENTIFIERS: \*SDAP(Spectrometric Di! Analysis

Program). \*Spectrometric oil analysis program (11)

IAC ACCESSION NUMBER: NT-018478 C DOCUMENT TYPE: N'IAC -MICROFICHE-The scope of this paper is to determine the present
life cycle cost (LCC) of ASDAP (Army IAC DOCUMENT TYPE: Spectrometric Oil Analysis Program based On certain assumptions. A cost model capable of determining the life cycle cost of ASDAP for both the atomic absorption spectrometry and t'e atomic emission spectrometry is developed. Next. using this cost model, the feasibility of the oil analysis program is determined. Finally, interest is focused on the benefits that the program has brought about in the past, and future benefits will be projected. A brief history of the Army's intervention into oil analysis. LCC. and cost models is presented. A brief discussion on the two methods of analysis that the Army uses and some estimations of various costs that are associated with ASOAP are included. A general cost model and a cost model for ASOAP is developed with a discussion of the various components. (Modified author abstract) (U)

AC SUBJECT TERMS: N--(U)SOAP. OILS. COSTS. MODE:S. SPECTPOMETRY, RESEARCH. FEASIBILITY. LITERATURE SURVEYS. HISTORY. SPECTROPHOTOMETRY. ATOMIC ABSORPTION. PREDICTIONS. COST EFFECTIVENESS; IAC SUBJECT TERMS:

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 785 953

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Development of a Predictive Model for First Unit Costs Following Breaks i. Production.

(U)

DESCRIPTIVE NOTE: Master's thesis. AUG 74 115P Pichon, Allen A. . Jr.: Richardson, Charles L. : REPT. NO. SLSR-15-74B

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force procurement, \*Logistics planning, \*Costs, Spare parts, Production, Learning curves, Mathematical prediction, Standard deviation, Theses
IDENTIFIERS: \*Break in operations (U)

While the learning curve has received increased While the learning curve has received increased emphasis from private industry and the United States Air Force (USAF), an associated phenomenon, the break in production and its effect on follow-on first unit costs has received little formal attention. Since a major activity of USAF is the procurement of spares or parts after initial production of a weapon system is completed, the need for a model to predict first unit costs following a break in production is evident. This thesis developed such a model relative to a machine-shop developed such a model relative to a machine-shop environment. Through the use of a computer stepwise regression program, a model was determined to predict first unit direct costs after a break in production. (Modifica author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 15/5

AD- 785 950

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AIR FORCE INS OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Study in the Application of the Cost Center Performance Summary to the Managerial Decision-Waring Process.

(U)

DESCRIPTIVE NOTF: Master's thesis.
AUG 74 :51P Ferris.Don
Frederick Y.; Ferris. Donaid F. : Smith. REPT. NO. SLSR-9-748

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Finance. \*Wanagement. \*Decision making, Control. Resources. Costs.

Questionnaires. Treses

IDENTIFIERS: \*Cost Center performance summary.

\*Financial management ( U) (U)

The Cost Center Performance Measurement The Cost Conter Performance Measurement
System is a financia; "inagement system that was
implemented to help managers make better use of Air
Force resources by assisting them in making
decisions. The heart of this financial management
system is the Cost Center Performance Summary
(CCPS). This study was conducted to determine
the extent to which financial managers within the
Strategic Air Command and the United States
Air Force in Europe were utilizing the CCPS
to influence their managemial derictions. (Medicine) to influence their managerial decisions. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 785 894

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LOGISTICS MANAGEMENT INST WASHINGTON D C

Studies in Support of the AMARC: Review of Cost Effectiveness Analysis. Volume 1.

MAR 74 42P REPT. NO. LMI-74-14-Vol-1 CONTRACT: 50-321 PROJ: 50-321-21

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-785 DESCRIPTORS: \*Army equipment. \*Army procurement. \*Cost effectiveness, Management planning and control, Logistics, Maintenance, Personnal management, Manpower utilization, Systems engineering (U)

As part of the Army Materiel Acquisition Review Committee (AMARC) effort, LMI was asked to review Cost-effectiveness analyses (CCEA) that were done in early stages of program development for quality and trends in quality. That was done for five disparate Army systems developments. It was found that CCEA were not looked upon as continuing efforts during program development but continuing efforts during program development but rather as a one-shot exercise to support the concept development package. There were many different models employed at relatively low levels in the development organizations, with little consistency among forms of models or cost data used. Little improvement with time was found. (Modified author (u) abstract)

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CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 5/1

AD- 785 876

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ARMY COMPUTER SYSTEMS COMMAND FORT BELVOIR VA

Management Strategies for ADP Networking.

DESCRIPTIVE NOTE: Final rept..
74 170P Woore.K. Roger: 74 170P M REPT. NO.

PROJ: DA-SX-865803-47-10 TASK: SX-865603-MY-1003

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Data processing terminals. \*Logistics planning. \*Army. Communications networks. Management information systems. Cost analysis. EConomics. I'me sharing iDENTIFIERS: Network analysis (Management).

\*Computer retworks, Benefit cost analysis

The purpose of this report is to identify the The purpose of this report is to identify the fundamental long range issues affecting the environment in which future Army ADP support must be provided and to discuss the energing theories of ADP network management. This is one of several reports to be produced by the Multicommand Networks Project. Whereas other reports of this Project will make specific recommendations regarding Army installations. this report establishes a frame of reference broad enough to transcend all the alternatives to be considered. For the purposes of this report, the terms 'computer natworking,' 'ADP networking,' and 'ADP consolidation' are considered to be synonymous. In the fullest sense of networking, each organizational element in the network can be a producer, or a Consumer of ADP services, or both. (Modified author abstract)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 785 849

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KENTUCKY UNIV LEXINGTON DEPT OF STATISTICS

The Secretary Problem with Interview Cost.

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JUL 74 250 Bartoszynski.R.;

Gov indara julu, Z.;
REPT. NO. TR-71, TR6-ONR
CONTRACT: NOC014-73-A-0385-0001

PROJ: NR-042-295

### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Decision theory. Probability. Costs. Permutations
IDENTIFIERS: \*Stopping rules(Mathematics). CHI

Secretary problem, Ranking

The paper deals with the so-called secretary, problem, i.e. with the problem of optimal stopping of the random permutation (x sub 1)....x sub n of numbers 1...., when the admissible information at each stage is only the relative value of the element observed last with respect to the preceding ones. (Modified author abstract) (U)

#### UNCLASSIFIED

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AD- 785 455

15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Evaluation of the Replacement Criteria for Select Air Force Commercial General Purpose Motor Vehicles.

(111)

DESCRIPTIVE NOTE: Master's thesis.
AUG 74 110P Reidy.John
Schneider.Donald A.: Reidy.John A. . Jr.: REPT. NO. SLSR-3-478

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Military vehicles. \*Logistics planning. -Replacement theory. Replacement. Standards. Regression analysis. Correlation techniques. Aging(Waterials). Life cycles. Costs. Air Force equipment IDENTIFIERS: Life cycle costing. \*Logistics

management

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The thesis evaluates the effectiveness of the Air Force replacement criteria using the sedan, station wagon and pickup truck as sample vehicles. The thesis compares the Air Force vehicle replacement methods with programs used by various commercial activities. It also evaluates the effectiveness of the replacement criteria 'age' and 'accumulated mileage' through multiple regression analysis and statistical tests. Results indicate that accumulated mileage is a valid consideration for replacement, but that the age of a vehicle does not provide adequate justification for replacement of that vehicle. (Modified author apstract)

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DDC REPORT SIBLICGRAPHY SEARCH CONTROL NO. 20M07

AD- 785 438 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIG SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Growth Model for Weapon System Development Programs. (0)

DESCRIPTIVE NOTE: Master's thesis, AUG 74 1039 John D. : REPT. NG. SLSR-22-748 Glover. Willaim L. :Lerz.

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Military procurement. \*Weapon systems. \*Costs, logistics planning, Uncertainty, Risk, Statistical analysis, Mathematical models. IDENTIFIERS: Growth models

Buch attention has been placed on cost growth in military weapon system acquisitions. The reasons for cost growth can be related to uncertainty relative to program costs, delivery datas and product reliability. A conceptual model has been developed to cope with the uncertainties in weapons acquisition programs. The model relates the concepts of programs. The model relates the concepts of entropy, information, uncertainty and costs, predicting final costs based on a measure of uncertainty, synchymous with risk in this study. The measure of uncertainty is entropy, or the lack of order in the information available to the program manager. The model papersses final costs as the ratio of initial cost estimates to program entropy. The authors develop and refine the model for application to weapon development programs. application to weapon development programs. (Modified author abstract) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIGGRAPHY SEAPCH CONTROL NO. 20#07 15/5

AD- 785 392

17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION ONIO

A Description of a Life Cycle Cost Model for Inertial Navigation Systems.

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E: Final rept.. DESCRIPTIVE NOTE: JUN 74 Russell M. : Weitzler. Thomas D. : Genet. REPT. NO. AGVC-74-01411

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Inertial navigation. \*Avionics. \*Life cycles. Inventory analysis. Cost analysis. Logistics planning. Inventory control. Wathematical models. Computer programs.

IDENTIFIERS: \*Logistics management. FORTRAN 4

programming language

The purpose of this report is to document a nathematical model that has been used to evaluate the potential life cycle costs of inential navigation systems. The model has been previously published: however, because of sensitive data, it had a limited distribution. This report includes deficitions of all input and output parameters. explanations of algorithms for the model, a sample run using fictiticus data and a program listing which includes a sensitivity study. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO?

AD- 785 391 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE CIHO HOLTATE

Proceedings of Quarterly Meeting of Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held at Clearwater, Florida on January 22-24. CHY

DESCRIPTIVE NOTE: Final rept..

JAN 74 245P Genet.Russell M. :Hunt.Don REPT. NO. AGMC-74-012II

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 25 Apr 74. AD-785 390.
DESCRIPTORS: \*Inertial systems. Life cycles. Costs, Meetings, Inertial navigation.

The proceedings describe the first meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. The report contains copies of educational presentations on various subjects connected with Life Cycle Costing and with Maintenance Marranties. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD- 785 390 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIG

Proceedings of Quarterly Meeting of Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Held at Anaheim. California on April 23-25.

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DESCRIPTIVE NOTE: F:nái rept..

APR 74 91P Meitzler.Thomas:
REPT. NO. AG#C-74-01011

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 24 uar 74. AD-785 391. DESCRIPTORS: •Inertial systems. Life cycles. (u) Costs. Meetings. Inertial navigation

The proceedings describe the second quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. The report includes an Introduction by Task Group Chairman. Russell Genet, and educational presentations on life cycle casting. Also included is a report on progress to ands a 'standardized' government/ Contractor life cycle cost model for inertial systems. (Author)

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GENERAL DYNAMICS SAN DIEGO CALIF CONVAIR AEROSPACE

Weapon System Costing Yethodology for Aircraft Airframes and Basic Structures. Volume IV. Estimating Techniques Handbook.

DESCRIPTIVE NOTE: Interim technical rept. Jul 72-Sep

73.
APR 74 77P Ker
CONTRACT: F33615-72-C-2083 Kenyon, R. E.:

PROJ: AF-1368 TASK: 136802

MONITOR! AFFOL TR-73-129-Vol-4

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. Dated Dec 73. AD-783 639.
DESCRIPTORS: \*Aircraft, \*Airframes, \*Cost analysis, \*Handbooks, Aerodynamic control surfaces. Fabrication, Costs, User needs, Computer programming (0) IDENTIFIERS: \*Cost estimating relationships

This report presents the interim results of a Study aimed at extending cost estimating techniques developed and demonstrated under a previous contract. The previous study provided a trade study and a system study costing method for empennage elements. During the initial phase of the current study. these capabilities have been extended to include all aerodynamic surfaces: horizontal stabilizer. aerodynamic surraces. Nortzontal Stabilizer, vertical Stabilizer, cfinands treated as a Stabilizer, and wings, including secondary structure. This volume provides a handbook as a guide to the trade study cost estimating technique. The function of the computer program is described. The program output format and the input data requirement and its organization are discussed and reference is provided to the cost estimating logic involved. (Author)

#### UNCLASSIFIED

DDC REPORT SIBLIOGRAPHY SEAPCH CONTROL NO. 20007

40- 785 313

MITRE CORP WOLEAN VA

An Advanced Air Traffic Management Concept Based on Extensions of the Upgraded Third Generation ATC System. System B: System Cost Analysis.

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Sinha.A. N. : REPT. NO. MTR-6419-5er-8 CONTRACT: DOI-FA70WA-2448 73-10A-Sen-8 MONITOR: FAA-EM

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Series 7. AD-785 DESCRIPTORS: \*Air traffic control systems. \*Cost analysis. \*Management planning and control.
Estimates. Surveillance. Communication and radio Systems. Navigation. Systems engineering. Radar equipment. Voice communications. Research management. Management information systems (0) IDENTIFIERS: Advanced air traffic management system.
Third generation systems. Fourth generation (9) Systems, Long range planning

The AATMS study was initiated to evaluate various concepts of fourth decenation air traffic control in the 1995 era. The purpose was to aid in the long-range planning of research and development, and to identify areas that appear the most promising for early preparation for the fourth generation. The report discusses the system cost analysis of an extension of the upgraged third generation ATC System. Cost estimates are presented for the Surveillance, communications, and navigation Subsystems as well as for the control centers and Controller staffing. (u)

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COOPER AND CO STAMFORD CONN

The Development of a Methodology for Estimating the Cost of Air Force On-the-Job Training.

DESCRIPTIVE NOTE: final rept..
JUL 74 69P Samers Samers.Bernard N. : Dunham.

JUL 74 69P Same Alan D. :Nordhauser.Fred : CONTRACT: F1609-72-C-0048 PROJ: AF-2077 TASK: 207703

MONITOR: AFHRL

TP-74-34

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Air force training. \*Technicians. \*Cost analysis, Schools, Assessment, Skills. Education, Performance(Human), Reviews. Methodology
IDENTIFIERS: «On jeb training, Comparison (U)

The Air Force uses a standardized Costing methodology for resident technical training schools. but no comparable methodology has been available for computing the cost of on-the-job training (DJT). This study evaluates three alternative survey This study evaluates three alternative survey methodologies and a number of cost models for estimating the cost of DUT for airmen training in the Administrative Specialty from the 1-level (helper) to the 3-level (semi-skilled). The final costing methodology selected for use in the next phase of this research effort should be adaptable to other Air Force specialties and skill levels. 1. quality of DUT and TTS practures is commanded according to several criteria. graduates is compared according to several criteria and the costs per graduate are compared. Other factors are also discussed. (Modified author abstract) (11) UNCLASSIFIED

COC REPORT BIRLIOGRAPHY EARCH CONTROL NO. ZOMOT

AD- 784 883 14/2

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ROYAL AIRCRAFT ESTABLISHMENT FARNBURDUCH (ENGLAND)

A Generalized Analysis of the Performance of Reynolds Number. Transcript Wind Tunnels.

DESCRIPTIVE NOTE: Technical rept.. FEB 74 100P Pugh.P. G. Pugh.P. G. :Evans.J. Y. G. :

REPT. NO. PAE-TR-73134 MONITOR: DRIC BR-39666

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Transonic wind tunnels. \*High energy. \*Cost effectiveness. -Reviews. Model tests. Aircraft. Re, noids number. Energy storage. Utilization. Great Britain. Systems engineering. The modynamic cycles. Drives. Performance:Engineering). Viscous flow.
Mathematical models. Experimental design
IDENTIFIERS: \*High Reynolds number tunnels

Many types of wind tunnels have been proposed for transonic testing of aircraft models at high reynolds numbers. While some form of stored-energy system is needed in order to avoid exorbitant running costs. designs can vary considerably in the extent to which effective use is made of the mass of air stored in the circuit. In the energy input needed between runs. and in the quality of flow in the test section. Some of the most promising designs can be Considered as variants of same thermodynamic cycle. and a generalised study has been made of their relative menits. (U)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO?

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SMITHSONIAN INSTITUTION WASHINGTON D C

Cost Benefits of Navy Recreation: mary of a Conference Held at the Smithsonian Institution on December 1973.

Rebecca W.:
PT. NO. TO DESCRIPTIVE NOTE: Sinaiko.H. Wallace :Graham. REPT. NO. TR-1 CONTRACT: N00014-67-A-1099-0006 PROJ: NR-170-032

UNCLASSIFIED REPORT

SUPPLEMENTARY MOTE: DESCRIPTORS: \*Meetings, \*Recreation, \*Naval persormel, \*Management informa\*ion Systems, Benefits, Costs, Problem solving, Policies, Planning, Naval research DESCRIPTORS: Planning, Naval research IDENTIFIERS: Recommendations

A one-day conference was organized to serve two ends: To bring together information about the benefits of recreation and methods for assessing such information in terms of cost and other criteria; and to define related issues which would be clarified by further research. Participants included Navy recreation administrators and planners and a multi-disciplinary group of specialists from the behavioral sciences. The report summarizes the proceedings of the conference, which identified problems contributing to the difficulty of managing Navy recreation, suggested some arguments to support the case for recreation programs, and made action recommendations. (Modified author abstract) (U) .MCLASSIFIED

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AD- 764 444 5/9

RAND CORP SANTA WONICA CALIF

Manpower Cost Reduction in Electronics Maintenance: Framework and Recommendations.

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DESCRIPTIVE NOTE: Interim rept..

JUL 74 76P Nelson.Gary R.:Gay.Robert
Mul:Roll.Charles Robert . Jr:
REPT. NO. R-1483-ARPA
CONTRACT: DAHC15-73-C-0181. ARPA Order-189-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIFTORS: \*Electronic technicians. \*Waintenance personnel, \*Personnel management. \*Cost analysis. Wangower. Military equipment, Training, Weapon systems. Classification. Wanagement planning and Control. Time domain IDENTIFIERS: Cost reduction, Recommendations

The costs of maintaining military electronics Systems have increased sharp!" in recent years. Two major sources of this increase can be identified. First, slectronics systems have become much more numerous and complex, and second, personnel costs have risen shamplymrespecially the cost of first-term enlisted personnel. The report looks at methods of reduming these costs. Recommendations are made in three weapon systems: maintenance manning, job performance aids, and the personnel and training system. The study distinguishes between short-term experiments on demonstrations that could be completed in six months to one year and longerterm projects.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

15/5 /D- 784 335 14/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

A Quantitative Examination of Cost-Quantity Relationships, Competition During Reprocurement, and Military versus Communcial Prices for Three Types of Vehicles. Volume (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 74 290P Zusman.Morris : Asher, Norman
;Metzler, Elliot : Bennett, Debbie : Gustaves.

Selmen ; REPT. NO. S-429

CONTRACT: DAHC15-73-C-0200 MONITOR: IDA/HQ 73-15740

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-778 DESCRIPTORS: \*Military procurement. \*Industrial procurement, \*Cost analysis. Cargo vehicles.
Military aircraft. Commercial aircraft. Electronic equipment IDENTIFIERS: \*Cost comparison, Competition (U)

The volume presents the results of the study which was divided into the following three interrelated subtasks: (1) An analytical and empirical examination of cost-quantity relationships with the objective of laying the framework for other parts of the study and attempting to identify factors other than cumulative units that might be incorporated in the progress curve; (2) an examination of competitive procurements with the objective of examining quantitatively the effect of competition on selling price; and (3) a compar son of prices paid for similar military and commercial equipment with the objective of testing quantitatively the hypothesis that commercial procurement practices are superior military procurement practices and that, as a resul, commercial equipment costs less than similar military equipment. The appendices contain supporting data and analysis. (Author) The volume presents the results of the study which

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DDC REPORT BIBLIOGRAPHY SEAPCH CONTROL NO. ZOMOT

AD- 784 124 15/5 5/3

OFFICE OF THE COMPTROLLER (AMC) ALEXANDRIA VA

Cost Estimating Relationships (CER) Compendium. Army Wiapon and Equipment Systems.

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DESCRIPTIVE NOTE: Technical publication. 462 Frost Raigh : AUG

UNCLASSIFIED REPORT

DESCRIPTORS: \*Ueapon systems, \*Army equipment \*Costs, Logistics planning, Documents, Operation, Army aircraft, Ammunition, Communication equipment, Guided missiles, Military

vehicle-IDENTIFIERS: Cost estimates. \*Logistics

management

A compendium of Cost Estimating Relationships A compendium of Cost Estimating Relationships (CER's) for use in estimating the cost of proposed army weapons and equipment. The CER's are presented by Commodity area, and for each CER the cost category (Research and Development. Investment, or Operating), subject, and title and date of the source document is stated. Portions of this document are not fully legible.

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RAND CORP SANTA MONICA CAL'F

Estimating the Cost of On-the-Job Training in Military Occupations: A Methodology and

(U) Pilot Study.

DESCRIPTIVE NOTE: Interim rept.,
APR 74 88P Gay, Robert M.;
REPT. NO. R-1351-ARPA
CONTRACT: DAHC15-73-C-0181, ARPA Order-189-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: DESCRIPTORS: \*Job training, \*Military personnel, Cost analysis, Air Force training, Maintenance personnel, Manpower, Costs, Efficiency IDENTIFIERS: All volunteer military services, (U)

The conversion to an all-volunteer military has greatly increased interest in the cost of training first-term enlisted personnel. This report (1) develops a method of estimating military on-the-job training costs and relationships between these costs and the personal attributes of trainees, and (2) evaluates the feasibility of this technique. The method of estimation is a straigntforward application of modern human capital theory; investment in OUT is measured as the present value of the sum of positive differences between an individual's military pay and productivity over time. In a pilot study conducted at Norton Air Force Base with members of the largest Air Force specialty (Aircraft Maintenance Specialists), OUT costs were estimated to average \$6600 even though (Aircraft Maintenance Specialists), OUT costs were estimated to average \$6600 even though all trainees had attended an Air Fonce technical school costing about \$3200. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD~ 783 932 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

A Review of General Accounting Office Decisions on Life Cycle Costing.

JUN 74 87P REPT. NO. LM:-74-4 CONTRACT: SD-321 PROJ: SD-321+11

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: \*Department of Defense. \*Government procurement. \*Costs. Life cycles. Reviews. Abstracts
IDENTIFIERS: \*Logistics management. \*Life cycle (U) (U) costina

The report reviews GAO decisions and reports through 1973 which impact on the application of Life Cycle Costing procedures on Government procurements. In addition to a discussion and overview. 35 specific decisions and reports are abstracted and reviewed. Cross-references and indexes by subject area are also provided.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 783 790 13/2 13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Examination of Alternative Methods for Employing Booms to Contain Oil Spills in Navy Harbors.

(u)

DESCRIPTIVE NOTE: Master's thesis. JUN 74 102P tarson.Jerold Joseph :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Oil spills, \*Booms(Equipment), 
\*Decision making, Efficiency, Cost effectiveness. 
Costs, Performance(Engineering), Water pollution. Theses
IDENTIFIERS: \*Oil pollution containment.
Comparison, Evaluation, Utility, Oil retention
booms, Benefit cost analysis (0) (U)

A plan is formulated which enables a decision maker A plan is formulated which enables a decision make to determine the relative effectiveness of three methods for employing bil spill containment boom. The evaluation is based on a utility analysis of three defined methods for employing oil spill containment boom. A decision analysis technique is employed to determine the relative importance of employed to determine the relative importance of parameters indicating the utility of each method for boom employment. The plan provides a means for balancing cost considerations against potential benefits. (Modified author abstract) (U)

# UNCLASSIFIED

DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. 20407

AD- 783 639 1/3 14/1

GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume I. Cost Methods Research and Development.

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DESCRIPTIVE NOTE: Technical rept. Jul 72-Sep 73.
DEC 73 233P Kenyon.R. E. :Youngs.J. DEC 73

CONTRACT: F33615-72-C-2063 PROJ: AF-1368 TASK: 136802

MCNITOR: AFFOL TR-73-129-Vol-1

UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft. \*Airframes. \*Costs. Estimates. Cost analysis. Aerodynamic control surfaces. Composite materials. Manufacturing. Computer programming
IDENTIFIERS: Design to cost. Cost estimating

relationships (U)

This report presents the interim results of a study aimed at extending cost estimating techniques developed and demonstrated under a previous contract. developed and demonstrated under a previous contract The previous study resulted in two separate estimating methods: a trade study and a system costing method. These methods provided two essential estimating capabilities: the capitility of assessing the relative difference in the cost of the basic structures attributable to variations in type of construction and material in an iterative fashion to support tradeoff studies during the preliminary design process, and the capability of accurately estimating total airframe costs in manhours and materials for selected design while manhours and materials for selected design while retaining sensitivity to type of material and construction. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 783 629 5/9 12/2

RAND CORP SANTA MONICA CALIF

A Method for Least-Cost Scheduling of Personnel through Training Course Sequences.

JUN 74 33P Roach, Chris D.; REPT. NO. R-1399-PR CONTRACT: F44620-63-C-0011

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: \*Personnel, \*Travel time, \*Cost
analysis, \*Decision making, Education, Computer
programming, Algorithms, Transportation, Integer
programming

The report presents an algorithm to find the five least-cost sequences for scheduling military personnel through a series of courses where the costs incurred are transportation costs. The algorithm adapts the implicit enumeration approach of integer programming to this pipeline flow problem and will require at least (n = 2.8)n factorial fewer computations than total enumeration, where n is the number of courses. It can also be used to determine the least-cost sequences when mixed travel modes are involved. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 783 532 5/9

NAVAL SHIP SYSTEMS COMMAND WASHINGTON D.C. PERSONNEL AND TRAINING ANALYSIS OFFICE

Revised Manning Requirements and Personnel Cost Savings for the Leaded LDMX/NAVCCMPARS Systems.

(U)

DESCRIPTIVE NOTE: Rept. for Dec 73-May 74.

JUN 74 88P vecellio.Mark L.:
REPT. NO. 047C-74
PROJ: X32-95

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Communication and hadro systems.

\*Manpower, Thaining, Automation, Personnel development, Cost analysis, Naval shore facilities, Job analysis, Requirements

The report updates the results of an earlier investigation of the manning and training requirements for operation of the Local Digital Message Exchange (LCVX) and Naval Communications Processing and Routing (NAVCDMPAPS) systems. The information presented in this study is expected to be useful to Navy planners in developing changes to activity manpower authorizations, personnel acquisition and distribution plans, and in determining student training loads and requirements. An additional purpose of this personnel-oriented view of the automated communications systems is to examine and highlight areas wherein personnel savings can be

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Use of Computerized Support Modeling in Logistic Support Analysis. (u)

DESCRIPTIVE NOTE: Final rept., JUL 74 23P Colon, Calfapietra, Vincent G. : Colon, Willia: .. ; REPT. NO. ECOM-4228

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Logistics Research Conference held at George Washington Univ., Washington, D.C., 9-10 May 74.

DESCRIPTORS: \*Logistics support. \*Electronic DESCRIPTORS: \*Logistics support. \*Electronic equipment. \*Computerized simulation. Cost effectiveness. Maintainability. Inventory analysis. Life cycles. FORTRAN 1 DENTIFIERS: FORTRAN 4 programming language. (u) (U)

During recent years there has been a growing concern within the Department of Defense (DoD) for the consequences of ignoring predicted (DOD) for the consequences of ignoring predicted logistics costs for any given system while it is still in design. In order to deal with the problems of ownership as well as acquisition of a system, one must be able to bridge the gap between the inherent characteristics of the design and environment in which the system will be operated and maintained. A valuable technique for iduntifying and evaluating the most cost effective options for management decision in this area is the performance of Logistic Support Analysis (LSA, utilizing computerized support modeling. A demonstration of how computerized support modeling (GEMM) can be applied in this manner. Is presented by considering the design and development of an electronics system for Army use. Two examples are provided in order to illustrate typical LSA's during both the Advanced Development and Engineering Development phases. (Modified author abstract) abstract) (U)

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BATTELLE COLUMBUS LABS CHIO

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Production of Income! 718 Mortan Tubes by Hydrostatic Extrusion.

(U)

DESCRIPTIVE NOTE: Final rept.. JUL 74 32P Douglas.J. Richard :Landis. Warren R. :Meyer.George E. :Byrer.Thomas G. :Fionentino.Robert J. : CONTRACT: DAAF07-72-R-0082 PROJE: PRON-M:-2-23069-02-M7-M7 MONITOR: AVT CR-74027

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Gun barrels. Mortars. Extrusion. Hydrostatic pressure. Nickel alloys. Costs. Reduction. Economics
IDENTIFIERS: Nickel alloy Income! 718. Cost engineering (U)

IAC ACCESSION NUMBER: MCIC-090630
IAC DOCUMENT TYPE: MCIC -HARD COPY--Using Subscale tubes. extrusion parameters were developed and then applied to full size 60mm tubes. It was shown that tubes can be satisfactorily produced at a reduced cost. Estimates were developed to mass produce hydrostatically extruded tubes. tubes. The processing parameters, dimensional results and economic analysis are presented in detail. (Modified author abstract)

EC SUBJECT TERMS: M--(U)INCONEL 718. TUBES. HYDROSTATIC EXTRUSION. COSTS. ELEVATED TEMPERATURE. SERVICE LIFE. ULTIMATE TENSILE STRENGTH. TENSILE YIELD STRENGTH. DUCTILITY. FATIGUE PROPERTIES. TOUCHNESS PROPERTIES. GUN IAC SUBJECT TERMS:

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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RAND CORP SANTA MODICA CALIF

Cost, Benefit, and Risk -- Keys to Evaluation of Policy Alternatives.

(U)

189 REPT. NO. P-5197

Massey.H. G. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Cost-Effectiveness Symposium of the Washington Operations Research Council (3rd), Held at the National Bureau of Standards, Gaitnersburg, Maryland on March 18-19, 1974. DESCRIPTORS: \*Systems analysis. \*Cost analysis. Risk, Dec'sion making, Uncertainty. Allocations IDENTIFIERS: Resource allocation

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DDC REPORT BIBLIDGRAPMY SEARCH CONTROL NO. ZOMOT

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RAND CORP SANTA MONICA CALIF

Problems in Avionics Life-Cycle Analysis.

DEC 73 2 REPT. NO. P-5:36 Fiorello.Marco R. :

UNCLASSIFIED REPORT

DESCRIPTORS: Avionics. \*Life cycles. Weapon systems. Cost analysis. Procurement. Inventory analysis. Logistics support. Uncertainty

(U) (U)

IDENTIFIERS: Cost of ownership. Design to cost

There is a need to know a great deal more about Life-Cycle costs for weapon systems and their subsystems. Direct costs for development, procurement and operations have continued to spiral upward at an increasing rate. Of particular interest are the Life-Cycle costs of new generation avionics subsystems in contemporary yeapon systems. These rew avionics have high progurement costs, higher support costs and even appear to dominate the weapon system maintenance costs. This report is concerned with the difficulties that Characterize contemporary Avionics Life-Cycle Analysis. The uncertainty associated with estimating avionics life-cycle costs is related to

the life-cycle stages of weapon systems. (Modified author costract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 783 268 1/3 15/7

GOODYEAR AEROSPACE CORP AKRON OHIO

Slow Descent Recovery System Technology Study and Data Program.

DESCRIPTIVE NOTE: Final rept. Apr-Oct 73. APR 74 290P BIG REPT. NO. GER-16010 CONTRACT: F33657-73-C-0470 PROJ: AF-5970 TASK: 14 Bloetscher, frederick :

MONITOR: AFFOL TR-74-7

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Parachute descents. \*Cost effectiveness, \*Air drcm operations, Droque parachutes, Rotors, Gliders, Balloons, Payload, Weight, Deployment, Cptimization, Performance(Engineering), Recovery IDENTIFIERS: \*SLODS(SLOW Descent Systems), \*Slow descent systems, Powered gliders, Drag devices, Tethered balloons (U) devices. Tethered balloons

A six-month parametric study program was conducted of performance, weight and volume characteristics of typical configurations of both the slow descending and loiter type systems suitable for lightweight expendable payloads released from aircraft or rockets. Typical configurations investigated were rockets. Typical configurations investigated were drag devices, rotors, gliders, powered gliders, free and tethered balloons. Descent systems were studied for descent velocities of 2, 4 and 8 FPS while loitur systems were considered for times ranging to 600 minutes for a payload range of 0.1 to 50 pounds and altitudes up to 50,000 feet. Volume which is related to SLCDS (Slow Descent Systems) weights was considered to be the most important parameter for the investigation. (Modified author abstract) (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 783 007 9/3 15/5

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 1: Executive (U)

Conspectus. DESCRIPTIVE NOTE: Final rept. Feb-Oct 73.

JAN 74 86P Gates Howard P. . Jr.: Courany Barry S. :Deitoman Seymour J. : Rean.Thoras C. :Weimer.C. David :1 REPT. NO. R-195 CONTRACT: DAHC15-73-C-0200

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Electronics, Military applications. Costs. Reduction. Cost analysis. Reliabilit, (Electronics)

The report identifies the current DOD and industrial policies, procedures, and practices in development, production, and operational support that most significantly influence the cost and reliability of military electronics, and it recommends changes to reduce and control cost and to improve reliability. The report concentrates on five major, nightimpact aness; (1) data collection and feathers. areas: (1) data collection and feedback.
(2) requirements. (3) competition and management options. (4) reliability enhancement. and (5) maintenance training. Numerous other areas are discussed and detailed recommendations are made in each. (Author)

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BDEING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING

Naval Medical Care Study: Costs and (U) Eco- omic Efficiency.

DEC 73 113P Lamson.Robert D.:Waggoner.
John J.: Minner.Dale E.:
CONTRACT: N00014-73-C-0341
PROJ: NR-046-257

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-782 572. SUPPLEMENTARY NOTE: See also AD-782 572.

DESCRIPTORS: \*Medica! services, Manpower, Navy,
Utilization, Cost analysis, Economics, Models,
Patients, Regression analysis, Budgets, Military
medicine, Efficiency
IDENTIFIERS: Health care delivery systems,
CHAMPUS(Civilian Health and Medical Program of
the Uniformed Services), Health maintenance (U) organizations (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO? 5/1

AD- 782 477 9/2

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGE#ENT

Guidelines for the Acquisition of Software Packages.

DESCRIPTIVE NOTE: Technical rept.. L'entz.Bennet P. :

UUL 74 21P L'entz.!
REPI. ND. 1R-5
CONTRACT: N00014-69-A-0200-4053 PROJ: NR-049-345

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programming. \*Acquisition. Accounting. Finance. Time sharing. Decision

making
IDENTIFIERS: Benefit cost analysis (U)

Many decisions dealing with computer software systems involve the potential acquisition of packages for a specific or limited general purpose nature. Guidelines for acquisition are presented here which stress the implementation feasibility of such packages. This reflects the behavior that operational Considerations not only impact the cost of a package but also are neglected in favor of traditional Cost/benefit analysis. The use of the guidelines in the areas of operations management. gunder his the dreas of operations management computer systems management, and accounting are discussed. (Author) (U)

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OFFICE OF THE ASSISTANT FOR STUDY SUPPORT KIRTLAND AFB N

Models and Methodology for Life Cycle Cost and Test and Evaluation Analysis. (u)

DESCRIPTIVE NOTE: Final rept.,
JUL 73 161P Anderson.Richard H.; Dixon.
Thomas E.; Couch.Robert F., Jr.; Newhart,
William H., Jr; William H. . Jr; REPT. NO. DAS-TR-73-6

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes AD-913 307. DESCRIPTORS: \*Avionics, \*Life cycles, \*Costs, Logistics support, Reliability, Attack pombers, Survival(General), Kill probabilities. Computer programs
IDENTIFIERS: MCSP computer program, DSPC computer program, A-7 aircraft, A-7D aircraft (U) (u)

This report documents various models and This report documents various models and methodology which were developed during the course of some analytical studies on life cycle cost and test and evaluation. These studies were conducted by the Office of the Assistant for Study Support (OAS) at the request of DCS/Development Plans, Headquarters AFSC. The objectives of the study were to: Investigate the present methods of subsystem reliability specification and identify limitations associated with thuse methods; investigate new and innovative techniques for investigate new and innovative techniques for subsystem reliability management and identify benefits to be derived in terms of higher performance/lower costs: and, develop models and methodology applicable to life cycle cost and test and evaluation analyses. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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ARMY AVIATION SYSTEMS COMMAND ST LOUIS NO SYSTEMS ANALYSIS

Cost-Effectiveness Yodel I. Projotype Selection and Trade-Office Analyses.

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MAY 74 22P El-Sabban,M. Zaki : REPT. NO. AMSAV-D-74-14 MONITOR: USAAVSCOM TR-74-23

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Helicopters. \*Cost effectiveness. Performance. Reliability. Survival(General).
Military procurement. Mathematical models

The report presents a methodology that would quide a Product/Phoject Manager in making an informed selection from among several single prototype aircraft, based upon cost and effectiveness Considerations. Measures of effectiveness are defined and a costmeffectiveness index (effectiveness per dollar) is determined and recommended as a basis for selectio. A numerical example is presented, demonstrating the application of this model. (Author) (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20407

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PHILCO-FORD CORP WILLOW GROVE PA COMMUNICATION SYSTEMS

Federal Aviation Administration Printed Circuit Board Analysis-Cost Vs. Benefit Study.

DESCRIPTIVE NOTE: Final rept..

DEC 73 105P Girsberg.Gerald L.;
CONTRACT: DOT-FA72W.-3000
MONITOR: FAA-RO.GIDEP 74-111.6066-0621

UNCLASSIFIED REPORT

DESCRIPTORS: \*Printed circuits, Cost analysis. Air traffic control systems. Cost effectiveness. Standards, Trade off analyses. Costs, Life cycles
IDENTIFIERS: NTISDOT, \*Printed circuit poards (;;

In arriving at a printed circuit board standard, the factors to be included in the s,and o must be analyzed. This report defines the trade-offs associated with the item considered for inclusion in the printed circuit board standard. Discussed are the specific details that could be standardized to associate a secretic standard before that the specific details that could be standardized to provide a specification which would ensure that resultant equipments reflect minimized Life Cycle Cost. The areas covered include the types of equipment and systems procured by the FAA; state-of-the-art printed circuit board complexity and potential developments: board size; types of connectors; thermal cooling considerations; backplane wiring systems; testing interface; repair considerations; logistics and reliability. (Modified author abstract) (U) UNCLASSIFIED

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CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Generalized Cost/Performance Trade-Off (U)

74 12P Lientz.i CONTRACT: N00014-69-A-0200-4033 PROJ: NR-049-345 Lientz.Bennet P. :

UNCLASSIFIED REPORT

DESCRIPTORS: \*Communications networks. Decision making. Costs. Performance(Engineering). Topology. Pattern recognition. Theorems (U)

Cost/performance trade-offs are considered in a generalized framework with application to Communication networks involving computation. Techniques of pattern recognition for ill-defined structures are used to develop procedures for obtaining cost/effective network configurations. The methodology is contrasted with several existing methods. (Author. (U)

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DDC REPORT SIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT AD- 781 711 12/2 5/3 CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER Cost and Production Functions -  ${\tt A}$  Survey. (8) DESCRIPTIVE NOTE: Research rept..

APR 74 41P Shephard.Ronald W.: APR 74 41P Snephare REPI. NO. GRC-74-11 CONTRACT: NO0014-69-A-0200-1010 PROJ: NR-047-033, RQ003-07 TASK: RR003-07-01 UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-779 870.
DESCRIPTORS: \*Economics. Production. Costs.
Functions(Mathematics). Mathematical models
JDENTIFIERS: \*Production functions (4)

Presented is a survey of recent developments in the theory of Cost and production functions, contrasting with the notion of a production function as used in econometric studies. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT AD- 781 324 4/2 ENVIRONMENTAL PREDICTION RESEARCH FACILITY (NAVY) MONTEREY CALIF Cost Effectiveness of Typhoon Forecast Improvements. ( U) MAY 74 349 Brand.Samson : Blelloch.Jack REPT. NO. ENVPREDRSCHF-tech paper-8-74

# UNCLASSIFIED REPORT

PROJ: WF52-551-713

DESCRIPTORS: \*Typhop.s. \*heather forecasting. Cost effectiveness. Storms. Decision making. Evacuation. Tracking. Military facilities. Pacific Goean IDENTIFIERS: North Pacific Ocean ( U: (0) Tropical cyclone forecast improvements in the western North Pacific are examined in terms of Department of Defense decision making (evacuation, sortie, preparedness, etc.). The improved decisions are then related directly to Department of Defense potential cost saving. (Author) (U)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 781 132 17/7 19/5 15/5 1/3

GENERAL RESEARCH CORP SANTA BARBARA CALIF SCIENCE AND TECHNOLOGY DIV

Cost Analysis of Avionics Equipment.

DESCRIPTIVE NOTE: Final rept. 16 Apr 73-1 War 74.
FEB 74 133P Dodson.E. N. :Kornish.S.
F. :Liebermann.R. R. : #ailer.w. E. :
REPT. NO. GRC-CR-1-419-Vol-1
CONTRACT: F33615-73-C-1205 MONITOR: AFAL TR-73-441-VOI-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Avionics, \*Cost analysis, Fire control radar, Doppler navigation, Doppler radar. Inertial navigation, Digital Computers, Logistics (U) IDENTIFIERS: Cost estimating relationships

The report addresses the problem of predicting the development, production, and logistic support Cost of avionics equipment well before a detailed description of its physical makeup is known. The approach was to derive parametric cost estimating relationships (CERs) for four types of avionics subsystems: fire control radars, inertial navigators, digital computers, and doppler navigation radars. These CERs are based on technical design variables familiar to the exploratory or advanced development design engineer. The development CERs incorporate an explicit measure of the development program's state-of-the-art advance. The logistic support CERs are functions primarily of equipment first unit cost or cumulative average cost. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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COLLINS RADIO CO CEDAR RAPIDS ICHA

River and Harbor Aid to Navigation System (RIHANS) Prase 1-C: System Definition. Volume IV. Cost.

DESCRIPTIVE NOTE: Final nept. Jul 72-Apr 73.

NOV 73 130P Frye.E. :McLaughlin.R.:

Dedich.J.: bengayen.w. :Sellers.G.:

REPT. NO. 52. 0765206-00181M-Vol-4

CONTRACT: DOI-CG-21411-A

PROJ: CG-7231.2.0

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-760 989 and Volume 5, AD-780 989: Volume 3, AD-760 989: Volume 5, AD-780 989: Volume 5, AD-780 987: DESCRIPTERS: \*Hyperbolic navigation. \*Navigational aids, Ships, Surface navigation, Radio beacons. Microwave equipment, Ail weather, Radio navigation, Radio necessers, Radio transmitters. Short range(Distance). Systems engineering. Costs, Position finding, Rivers, Harbors. Inland waterways. Automatic
IDENTIFIERS: RIMANS(River and Marbor Aid to
Navigation Systems). River and harbor aid to (11)

The report submits pricing for the Service and User Segments of the RIHANS program. The User Segments of the RIMANS program. The pricing satisfies the Phase I requirements of the RIMANS program and the quidelines established by the US Coast Guard. It is the intent to illustrate as much cost visibility as possible to enable mutual in-depth evaluation of the Costs. Initial cost estimating was performed by the RIMANS Program Engineering Staff. The estimiting was accomplished primarily on a quantity one basis. Careful review was giver to this estimate, as it was the basis for Manufacturing estimates in the Righer quantities involved. The end product has Manufacturing build rates and variances applied. These equipments are quoted in terms of average man-hours and rates as this effort is a cost projection.

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navigation systems

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DDC REPORT BISLINGRAPHY SEARCH CONTROL NO. 70MO7

AD- 780 908

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POLYTECHNIC INST OF NEW YORK BROOKLYN DEPT OF ELECTRICAL ENGINEERING AND ELECTROPHYSICS

Redundant Spares Allocation to Reduce Reliability Costs-II. (U)

APR 74 20P Shaw, Leonard; REPT. ND. PINY-EE/EP-74-010, PINY-EER-109 CONTRACT: N00014-67-A-0438-0013 PROJ: NR-042-301

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Sep 73. AD-769 303.
DESCRIPTORS: \*Reliability(Electronics).
\*Redundant components, \*Spare parts, Inventory control, Allocations, Metal exide semiconductors, Integrated circuits, Modules(Electronics). Costs
IDENTIFIERS: Large scale integrated circuits (U)

The problem considered here is the optimal selection of the inventory of spares for a system built from two kinds of moduler, the larger of which can be connected so it performs the role of the smaller one. The optimal inventory is the least costly one which achieves a specified probled lity that the spares will not be exhausted over the design that the spares will not be exhausted over the designation of the following the control of the c used to study this problem. (Author) (u)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 780 636

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FAND CORP SANTA MONICA CALIF

Relating Technology to Acquisition Costs. Aircraft Turbine Engines.

MAR 74 819 Nelson.J. R. :Timson.F.

S.; REPT. ND. R-1288-PR CONTRACT: F44620-73-C-0011

# UNCLASSIFIED REPORT

DESCRIPTORS: "Aircraft engines, "Logistics planning, Cos" analysis, Procurement, Estimates, Mathematical models, Turbofan engines, Turbolet engines, Thrust, Fuel Consumption

IDENTIFIERS: Cost models. Logistics

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The quantitative measure presented in the report is derived from a recent Rand study in which a technique was developed for assessing the date at technique was deteloped for assessing the date at which an airCraft turbine engine with a specified set of technical parameters should pass its 150-hr #odel Qualification Test (MQT). The refined aircraft turbine engine TOA model is based on 26 U.S. minitary turbojet and turbofan engines developed and produced during the past 30 years. The model predicts the man-rated 150-hr MQT date as a function of certain of the engine's performance and design parameters. The parameters include maximum thrust of the engine at seamlevel static Conditions, weight, specific fuel consumption at military thrust at seamlevel static, turbine inlet temperature, and a pressure term (the product of flight envelope maximum dynamic pressure and the overall pressure ratio of the engine). (Modified (U) author abstract)

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DDC REPORT BIGLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 779 870 5/3 12/2

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Economic Theoretical Structure of Cost-Benefit Analysis. (U)

DESCRIPTIVE NOTE: Research rept...
#AY 74 19P Shephard. #AY 74 197 Shephare REPT. NO. 02C-74-13 CONTRACT: NOC014-69-A-6200-1010 Snephard.Ronald W. :

PROJ: NR-047-033. RR003-07-01

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Economics, \*Costs, Production, Economic models
IDENTIFIERS: \*Production functions. Utility
functions. \*Benefit Cost analysis (U) (U)

For a general model of production structure. various Indirect Production Functions are defined and used to construct cost-return (benefit) relationships. When an ordinal (benefit) relationships, when an ordinal utility function is used for valuation of output vectors, a cardinalization of the values of this function is suggested in terms of the minimal Cost of getting output vectors at least as preferred as those of the indifference class to which is associated an ordinal value of V(u). (Author)

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COC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 779 S61 12/2 :5/7

DECISIONS AND DESIGNS INC MOLEAN VA

Decision Theory Research.

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DESCRIPTIVE NOTE: Technical progress rept. no. 3. 1 Sep. 73-28 Feb 74.

MAY 74 76P Helly.Clinton w. . III: MAY 74 76P Kelly.Clinton M. . III: Peterson.Carerson R. : Srcwn.Rex V. : Barclay. Scott : CONTRACT: N0:014-73-C-0149. ARPA Croen-2271 PRD 1: NR-197-023

# UNCLASSIFIED REPORT

SUPPLEMENT\_RY NOTE: See also #0-757 117. DESCRIPTORS: \*Decision theory. \*Meetings.
Probability. Uncertainty. Decision making. Wilitary intelligence, Innest evaluation IDENTIFIERS: Resource allocation, Benefit Gost (8) analysis (U)

A report is presented concerning research for improving human judgments of propabilities and utilities for decision making, and the application of decision theory to problems in resource allocation and policy analysis. Decision theoretic concepts are developed and procedures established for encoding Uncertainties as probabilities and incorporating attitudes toward risk into utilities. An approach is developed for translating national level decision making information needs for strategic planning into requirements which have the likelihood of being matisfied under varying options of resource Allocation. A methodology is developed for intelligence analyst use of credible interval Assessments without the use of sophisticated computer essessments without the day of south ficated computer programs. Using as a case study the recent Energy crisis, decision theory analysis is investigated as an appropriate methodology for developing optimum outdones for various alternatives in national and international policy negotiations. The substance of recent activities for decision The substance of recent activities for decision analysis application to problems of current and scientific intelligence is reported. Appendix I reports on three Decision Theory Workshops which were conducted in November 1973. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 779 579 5/1 15/3

ARMY WAR COLL CARLISLE BARRACKS PA

Can Cost Analysis Improve Management. (U)

DESCRIPTIVE NOTE: Student essay.
DEC 73 28P Stelmachowicz, Peter J.;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Defense systems, \*Cost analysis, \*Management, Reviews (U)

The essay establishes that defense management is in need of improvement, that although a variety of reasons can be found to explain this situation, cost estimates are a prime culprit. Costs are the common denominator which translated all aspects of a system, no matter how technical or complex, into understandable terms. The paper briefly sketches the dimensions of the problem and provides an insight into cost analysis. (Modified author abstract)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 779 359 15/3

ARMY WAR COLL CARLISLE BARRACKS PA

The 'Should Cost' Concept.

(U)

DESCRIPTIVE NOTE: Student essay.
DEC 73 21P Horn.Clifton A.:

UNCLASSIFIED REPORT

DESCRIPTORS: \*Department of Defense. \*Cost analysis. Management

(U)

In an effort to reduce cost growth and overruns on defense contracts, new approach to cost analysis has been developed and implemented by DOD agencies. The new approach, called the 'should cost concept', has been used by all the services with significant savings reported. Some members of congress. Senator William Proxmire in particular, have challenged these claims, suggesting that the costs of performing a should cost study outweigh potential savings. Five of the first studies conducted by the Army have been examined. Of these, two studies were analyzed in detail to determine their value in establishing realistic negotiation objectives, identifying short-and long-range management improvement programs and in achieving cost savings for the government. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 778 836 9/2

ROME AIR DEVELOPMENT CENTER GRIFFISS AFB N Y

Rome Air Development Center R and D Program in Computer Language Controls and Software Engineering Techniques.

APR 74 25P REPT. NO. RADC-TR-74-80 Thayer.Richard H. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programming. \*Cost analysis. High level languages, Air Force research

In the procurement of any large scale automatic data processing system, software development costs the United States Air Force three to five times the cost of hardware. These software costs can be attributed to the sheer magnitude of the labor of coding, the extremely high cost of debugging and verifying programs, a low transferability of computer programs between machines and the high cost of maintaining programs which include the elimination of latent errors. Unly through automation of software production can the Air Force hope to control software development. This paper looks at the software production cycle, the present problems associated with it and the USAF R and D program in the development of automated techniques for software production. A final challenge is offered on knotty software R and D problems, that, if solved, could further Computer Technology. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 778 765

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NORTH CARCLIPA STATE UNIV RALEIGH DEPT OF ELECTRICAL

Research Proposal for Minimal Cost Sequential Machines.

(U)

(U)

JAN 74 69P Staudham REPT. ND. Rept. no. 1 CONTRACT: DA-ARO-D-31-124-72-G65 Staudhammer.John:

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Reprinted with corrections report dated Jan 73.
DESCRIPTORS: \*Gates(Circuits). \*Logic circuits.

Memory devices. Computations. Algorithms. Costs

IDENTIFIERS: \*Asynchronous sequential circu \*4.
Flip flops. \*Sequential machines. Logic design

The state assignment problem for minimal logic required for a general synchronicus machine is conceded to be a computationally intractable problem. However research conducted here over the last 18 months indicates that a realistic lower limit may be found on the logic required and that the procedures used to calculate this limit may be taken as a basis for guiding the state assignment such that a circuit approaching this limit may be obtained. Furthermore, the procedure may be used to decide on the kind of memory element to be used. It is proposed to extend these preliminary results to asynchronous machines, to incompletely specified machinenes, and to include output considerations. Further it is proposed to consolidate these findings in a set of algorithms which give an acceptably good state assignment for arbitrary. nontrivial machines. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMD7 AD- 778 634 5/3 NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF Cost of Living Adjustment for Military (U) Personnel. DESCRIPTIVE NOTE: Master's thesis. MAR 74 87P Miletich.Cristobal S. :

# UNCLASSIFIED REPORT

Chien, Jen Ter ;

DESCRIPTORS: \*Military personne;. \*Indexes(Ratios), Costs, Consumers, Economic models, Finance, Food, Housing(Dwellings), Medical services, Clothing, Purchasing, Civilian personnel, Theses
IDENTIFIERS: \*Consumer price indexes, \*Cost of (U) (U) livina

The study presents an analysis of the differences in the cost of living between civilian and military families. An index analogous to the Consumer Price Index (CPI) is constructed for military personnel. In constructing this new index the authors discuss both the theoretical and empirical basis for the existing Consumer Price Indices. The authors obtain this modified CPI for the military (MCPI) using two approaches. First they construct a new index considering only the effect on the CPI of those commodities available either free the CPI of those commonities available either free or at reduced prices to military personnel. Second they construct a military counterpart of the CPI considering unly the unique guographic distribution of the military personnel. The results suggest that the MCPI has risen less rapidly than the CPI during tre period 1961-1970. (Modified author abstract) (U)

### UNCLASSIFIED

DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 778 612 15/5

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

A Quantitative Examination of Cost-Quantity Relationships. Competition during Reproducement, and Military versus Commercial Prices for Three Types of Venicles, Volume 1. Executive Summary.

(U)

DESCRIPTIVE NOTE: \_Final rept.. 59P namnoM.reda.: einroM.namzul :Wetzler.Elliot :Bennett.Debbie :Gustaves.. Selmer : REPT. NO. S-429 CONTRACT: DAHC15-73-C-6200

MONITOR: 104/HC 73-15739

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Military procurement. \*Industrial procurement. \*Cost analysis. Cargo ships. Cargo sircraft. Production IDENTIFIERS: \*Cost comparison. Competition (U)

The report presents the results of the study which was divided into the following three interrelated subtasks: (1) an analytical and empirical examination of cost-quantity relationships with the objective of laying the framework for other parts of the study and attempting to identify factors other than cumulative units that might be incorporated in the progress curve: (2) an examination of competitive procurements with the objective of examining quantitatively the effect of competition on selling price; and (3) a comparison of prices paid for similar military and commercial equipment with the objective of testing quantitatively the hypothesis that commercial procurement practices are superior to military procurement practices and that. as a result. commercial equipment costs less than similar military equipment. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 778 597 1/1

ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT PARIS (FRANCE)

AGARD Highlights. March 1974. (u)

MAR 74 31P REPT. NO. AGARD-Highlights-74/1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: NATO furnished. DESCRIPTORS: \*Aeronautical engineering, \*Costs, \*Systems engineering, Aircraft, Air pollution, Technology, Wind tunnels, Reviews, Meetings (11)

The issue takes up some of the problems related to economy in view of the steadily increasing costs of maintaining modern, credible defense forces. The economic implications relating to aircraft design optimization, considering the relevance of cost, are also treated. One presents some views on the nanticular mobilems mosad by atmospheric pollution by particular problems posed by atmospheric pollution by aircraft, and why these issues should be of interest to all the military.

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 777 895

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DOUGLAS AIRCRAFT CO LONG BEACH CALIF

DC-9 Noise Retrofit Feasibility. Volume II. Upper Goal Noise, Performance and Cost Evaluation.

(11)

DESCRIPTIVE NOTE: Final rept. Jan-Sep 73. DEC 73 159P %:
REPT. NO. MDC-J4356
CONTRACT: DC:-FA72WA-3116 whallon.H. D. :

MONITOR: FAA-RD 73-124-2

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Nov 73. Ap-DESCRIPTORS: \*Passenger aircraft. \*Jet engine noise. Noise reduction, det engines, det engine nacelles, Experimental design, Exhaust nozzles. Modification, Cost analysis
IDENTIFIERS: DC-9 aircraft, \*Retrofit, JT9D-9 (U) engines (U)

The work described in the report covers the work Upper Goal nacelle configuration study was directed toward noise reduction goals of 4. 4. 5. and 10 EPNdB at the Féderal Aviation Regulations (FAR) Part 26 sideline, takeoff. Cutback, and approach measurement conditions. CutDack. and approach measurement conditions. respectively. Exhaust system development tests were conducted on an engine static test stand to evaluate the Upper Goal exhaust system.

Components of the Upper Goal nacelle were designed and fabricated. The components were ground that the components were ground that the components were ground. designed and fabricated. The components were ground static tested for effect on engine performance and noise. The initial daisy-with-ejector configuration showed good acoustical results but with unacceptable performance losses, even after a number of modifications. An alternative configuration, using the same test hardware but adjusted to provide quieting by enlarging the nozzle area, essentially met acoustical and performance requirements. Static tests demonstrated predicted inflient online Static tests demonstrated predicted inflight noise reductions of 4.7. 4.0. 3.9. and 10.1 EPNdB at the sideline, takeoff, cutback, and approach measurement londitions, respectively, which approximate the FAA Upper Goal values. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 884 13/10

HYDRONAUTICS INC LAUREL MD

Concept Design and Cost Analysis of Restricted Draft Dry Bulk Carriers. (U)

DESCRIPTIVE NOTE: Final technical rept. 22 Dec 72-21 Jul 73.

1740 Roseman.Donald P. : Peters.

Geoffrey W. ; Lain.Horton W.; REPT. NO. TR-7330-1 CONTRACT: DACW73-73-C-0043 MONITOR: IMR 74-1

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Cargo ships, \*Ship hulls, Depth control, Harbors, Experimental design, Cost analysis, Cargo, Seakeeping IDENTIFIERS: \*Restricted draft vessels, Beam to (1) draft ratios (U)

The development of restructed draft dry bulk carriers is recognized as a means for reducing transportation costs by permitting the operation of larger vessels out of existing ports. For three given drafts, a parametric computer design study of deadweight capacity and corresponding dimensions and form characteristics is carried out to determine maximum feasible deadweight, subject to assumed physical boundary conditions and economic considerations. Restricted draft ship characteristics selected for the study are developed into concept designs by conventional design methods. For resulting characteristics and Costs are compared with conventional deep draft vessel characteristics and costs. Finally, technical problem areas associated with restricted draft ship

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designs are recognized and discussed.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 777 867 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The Applicability of 'Should Cost' to the Procurement Process.

(U)

DESCRIPTIVE NOTE: Master's thesis. 442 haight.Richard William :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*weapon systems. \*Wilitary procurement. \*Costs, Logistics planning, Theses
IDENTIFIERS: Cost estimates, \*Should cost : 01 analysis (11)

As major weapons systems become more complex. it becomes increasingly more difficult to accurately estimate the cost. Various costing techniques have been used in an attempt to accurately estimate the Contract price of modern weapon systems with varying degrees of success. 'Snould cost' analysis has become increasingly more important, in the eyes of some, as the best approach in a noncompetitive procurement situation. Currently, the Army, the Air Force, the Navy and GAD all conduct 'should cost' studies using various approaches. the paper. an attempt is made to gain the feelings of Defense contractors concerning the application of Government 'should cost' analysis. The author of the paper has made several recommendations, based upon data available, concerning the limitations of and the application of 'should cost' analysis. (Author) (U)

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(Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 777 864

AIR FORCE INST OF TECH WPIGHT-PATTERSON AFB OHIO SCHOOL OF

A Methodology for Determining Investment Costs for Automated Storage Facilities.

DESCRIPTIVE NOTE: Master's thesis. FEB 74 175P Richard S. ; Wilhelm.John P. : Castle. REPT. NO. GSA/SM/74-4

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Warehouses. \*Investments. \*Costs. Computerized simulation. Automation, Computer programs, Materials handling Vehicles, Conveyors, Theses, Military research IDENTIFIERS: Economic analysis

The study forms one input to a continuing investigation by DoD agencies into the economy of warehouse modernization. Specifically, this study focuses on the 1980 time frame and attempts to focuses on the 1980 time frame and attempts to describe a methodology for predicting the investment costs for an automated DuD storage facility. The facility design used is the one found in the Phase II Final Report of Task Group 5-10, the group established in 1971 to study modernization of DuD storage facilities. The study prasents a computer model which calculates investment costs for the building and the equipment of the proposed facility. (Modified author abstract)

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DDC REPORT PIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD- 777 623

UTAH UNIV SALT LAKE CITY

Optimum Adjustment Policy for a Product with Two Quality Characteristics.

73 82 mennedy.William J. . Jr.: Ghare. Prabakhar M. :

# UNCLASSIFIED REPORT

12/2

Availability: Pub. in Naval Research Logistics Quarterly, v20 n4 p785-791 Dec 73. SUPPLEMENTARY NOTE: Prepared in cooperation with Virginia Polytechnic Inst. and State University. Blacksburg, Va.
DESCRIPTORS: \*Costs. \*Statistical analysis.
Probability Gansity functions. Random variables. Adjusting (U) IDFATIFIERS: \* rices. Products. \*Price ac justments (11)

The authors Consider the problem of determining an optimal adjustment policy when the price received for the product is a function of a stated quality Deasure. When this quality measure has a specified value, maximum price can be received. As the quality measure deviates from the specified value the price received drops progressively.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 777 572 1/3

LTV AEROSPACE CORP DALLAS TEX VOUGHT SYSTEMS DIV

Limit Criteria for Low Cost Airframe Concepts.

(U)

DESCRIPTIVE NOTE: Final rept. May-Nov 73.

OCT 73 108P Yarbrough.S. H.;

W. B.; Reingold.A.;

REPT. NO. 2-57110/3R-3126

CONTRACT: F33615-/3-C-3126 Yarbrough.S. H. : Cleaveland.

PROJ: AF-1368 TASK: 136801 MONITOR: AFFDL

TR-73-140

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Airframes. \*Cost analysis. Structural members, Costs, Assessment, Machine shop practice, Value engineering, Jet fighters IDENTIFIERS: A-7 aircraft, A-70 aircraft

The report presents the results of a study program which evaluated the primary cost factors of selected airframe baseline components and alternate designs compatible with low cost concepts. The data from this study is compiled and presented in a ready reference format defined as the 'Limit Criteria.' reference format defined as the 'Limit Criteria.' Six A-TD aircraft components representing the characteristic stress types were selected as the baseline designs, then a minimum of two Or more alternate designs were selected for each component. The baselire and alternates were analyzed and estimated on the basis of strength, stiffness, fracture toughness, weight and cost. Weight and cost of the design variations was plotted on a Cost/Weight/Value Diagram of each Component for direct comparison of current design results. for direct comparison of current design results. (Modified author abstract) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20407

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BOOZ-ALLEN AND HAMILTON INC BETHESDA MO

Alternative Strategies for Optimizing Energy Supply. Distribution, and Consumition Systems on Naval Bases, Volume 1: Near-Term Strategies.

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DESCRIPTIVE NOTE: Final rept. May-Nov 73.

NOV 73 174P Consce.T. :Hatcher.S.:
Nicholas .J. :Mateyka.J. :Shaw.R.:
REPI. NO. 3A-9005-364
CONTRACT: N62399-73-C-C029

MONITOR: CEL CR-74.006

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Energy. \*Naval shore facilities. Utilization. Consumption. Energy conservation. Optimization. Cost effectiveness

(U)

The report describes an assessment of alternate Strategies for optimizing energy supply.

distribution, and consumption systems on naval bases.

It contains the results of cost/benefit analyses of six near-term energy conservation strategies applicable to continental United States (CONUS) applicable to continental united states (CUNUS)
naval base. Implementation of these energy
Conservation strategies would not require research
and development (R AND D) expenditures and would
result in an energy savings roughly equivalent to 11
percent of current CONUS Navy energy use. (Modified author abstract) (4)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

A0- 777 457 15

LOGISTICS MANAGEMENT INST WASHINGTON D C

The Contractual Implications of the Design-to-Cost Concept. (U)

MAR 74 49P REPT. NO. LMI-74-1 CONTRACT: SD-321 PROJ: SD-321-E

# UNCLASSIFIED REPORT

DESCRIP.ORS: •Military equipment. \*Logistics planning. Military procurement. Cost analysis.
Contracts, Scheduling, "'fe cycles, Research management, Management planning and control (U)
DENTIFIERS: \*Logistics management, \*Design to cost, \*Contract management (U)

The report analyzes and presents conclusions and 12 recommendations on application of the design-to-cost concept from the contracting and procurement viewpoint. A primary conclusion was that design-to-cost does not require the use of any unique contracting techniques. A short chapter on the concept noted that design-to-cost is really a change in emphasis rather than a radical change in procurement philosophy. The relationship between design-to-cost and a number of topics were explored. The more significant relationships discussed included the statement of acquisition parameters, the type of contract to be used, the flexibility of contracting/program authority. Life cycle costing, the imposition of military standards, the need for regulatory changes, the role of competition, the criteria for application, participation of the using commands and agencies, and contractor motivation.

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DOC REPORT SIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 777 456 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

Criteria for Evaluating meapon System Rel'ability. Availability and Costs.

(u)

MAR 74 110P REPT. NO. LMI-73-11 CONTRACT: SD-321 PROJ: SD-271-185

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Weapon systems. \*Systems engineering.
Logistics planning. Costs. Maintenance.
Reliability. Life cycles. Mathematical models (U)
IDENTIFIERS: \*Logistics management (U)

The purpose of this tash was to determine the relationships among system and subsystem reliability, availability and life cycle costs. To accomplish this a model was constructed to determine the optimum reliability for each of the subsystems that comprise a system such that the total life cycle cost of the system, as affected by re lability, is minimized. Three principal submodels were constructed.

Three principal submodels were constructed.
These are: cost of system downtime (costs to achieve constant mission requirements) resulting from imperfect reliability. Hesign, development, test, acquisition, and program management costs associated with achieving reliability; and maintenance and support costs affected by subsystem reliability. (Modified author abstract)

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AD- 777 441 4/2

NATIONAL WEATHER SERVICE SILVER SPRING MD SYSTEMS PLANS AND DESIGN DIV

Some Results from Applying a Cost-Effectiveness Model for Evaluating Aviation Weather Dissemination Techniques.

DESCRIPTIVE NOTE: Final rept. Apr 72-Dec 73. DLC 73 77P Newhouse.Henry:

DLC 73 77P N CONTRACT: :DT-FA72#AI+283 PROJ: ' FAA-132-422-062 MONITOR: FAX-RD 73-128

# UNCLASSIFIED REPORT

DESCRIPTORS: \*#eather communications. \*Aviation safety, \*Cost effectiveness. Weather forecasting, Flow charting IDENTIFIERS: Performance evaluation (U)

Some results were obtained from a Costeffectiveness model which was developed for evaluating the performance of various compinations of aviation meather dissemination techniques. Basic data on which the model operates consist of distributions of registered general aviation aircraft, air traffic activity and total flight services, FAA forecasts of growth in general aviation during the next decade, and the cost of various dissemination techniques and facilities. These data are used to generate estimates of domand in a 26 x 60 matrix of 1 degree squares covering the 48 states. Dissemination technique effectiveness values are arrived at largely through two factors—accessibility and usefulness—which were obtained via a Delphi approach. As part of the model's output, measures of system performance are given in terms of percentage of demand satisfied by the total system, each technique, and each portion of the flight profile. Computations give cost-per-demand served, cost of the total system plus overhead, and the cost of each technique in terms of capital. operating, and personnel costs. (Modified author (U) abstract)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 777 354

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PENNSYLVANIA STATE UNIV UNIVERSITY PARK

The Development and Svaluation of a Cost-Based Composite Scheduling Rule.

(11)

16P Aggarwal.Sumer C. :McCarl. Bruce A. :

## UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v21 n1, p155-169 Mar 74.

DESCRIPTORS: \*Jobs. \*Scheduling. Costs.

Inventory control. Experimental design. Analysis of variance. Tables(Data)

IDENTIFIERS: Rank order statistics. \*Job shop

scheduling

(U)

A cost-based composite scheduling rule is developed and evaluated in comparison with three other well-researched scheduling rules-SPI. S/OPN. and SST. This cost rule permits the optimization of more than one performance measure at a time. The priority number that is used for scheduling operations through each machine group is based on four separate performance measures—(1) In-process Inventory. (2) Facilities Utilization. (3) Lateness, and (4) Mean Setup Time. The factorial experimental design involved three factor levels of loads, three factor levels of cost, and three factor levels of mean time. Analysis of variance was performed on each of the five output measure, to study the effects of each of the three factors on each individual rule. Rankorder Comparisons between rules were also made: and. finally, general conclusions with regard to the effectiveness and flexibility of the Cost Rule

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were drawn. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 256 15/5 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB DHID

The Affect of Wipics on the F4-8 to N
Conversion Program. (U)

DESCRIPTIVE NOTE: Final rept. Jun 73-Apr 74.

APR 74 47P Women, Norman K.;

REPT. NO. AFIT-TR-74-5

MONITOR: AU \$-1974-4FIT-ENS

### UNCLASSIFIED REPORT

DESCRIPTORS: \*Jet fighters, \*Modification,
\*Inventory control, \*Cost effectiveness, Cost
analysis, Conversion, Air force equipment,
Labor (U)
IDENTIFIERS: \*WIPICS(Work In Process Inventory
Control), \*Mork in process inventory control,
F-48 aircraft, F-4 aircraft, F-4N
aircraft (U)

The report provides the underlying theory and methods used to determine the affect of the Work in Process Inventory Control System (WIPICS) on the F4-B to N conversion program and the Naval Air Rework Facility, North Island. California. The report doc ments cost savings C 3.24% of the 'before' dIPI S. It also concludes that these cost savings are statistically significant at the 10% level. (Author) (U)

### UNCLASSIFIED

DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 777 249 15/5

AIR FORCE INST OF TECH BRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Suggested Methods for Implementation of Life Cycle Costing Techniques in the Procurement of Air Force General Purpose Commercial Vehicles.

DESCRIPTIVE NOTE: Master's thesis.

JAN 74 86P Karsten.Ernst R.:

WcDaniel.Larry T.:

REPT. NO. SLSi-9-74A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air force procurement. \*Vehicles.
\*Life cycles. \*Costs. \*Logistics planning. Air
force budgets. Maintenance. Theses (U)
IDENTIFIERS: \*Life cycle costing (U)

With decreasing Department of Defense budgets it is becoming more important to cut procurement cost and at the same time receive more for the mone; sport the procurement method with this capability is Life Co.:e Costing (LCC). Since vast sums of in Force money are being spent each year on comme cial vehicles, the LCC procurement method could ecome a viable alternative in their acquisition. The thesis is a study c. two LCC techniques which could be applied in this acquisition. These methods are: Total Life Costing and Guaranteed Maintenance. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M97

AD- 777 247 15/5 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB ONIO SCHOOL OF SYSTEMS AND LOGISTICS

A Cost-Benefit Analysis of Competitive Versus Sole Source Procurement of Aircraft Replemishment Spare Parts. (U)

DESCRIPTIVE NOTE: Master's thesis.

JAN 74 120P Dison,Alan E. ;Cunningham,
Jame's A. ;Wilkins.Donald J. ;
REPT. NO. SLSR-21-74A

## UNCLASSIFIED REPOR.

DESCRIPTORS: \*Aircraft equipment. \*Spare parts. \*Al. Force procurement, \*Cost analysis. Savings, Analysis of variance, Theses IDENTIFIERS: \*Benefit cost analysis, Competition.

The objective of this research was to datermine the effect of competition on the cost of airCraft replenishment spare parts. A conceptual model was presented which depicts the relationships between the various cost factors and the identifiable benefits of competition. It indicates that the net savings (loss) accompanying a shift from sole-source to competitive procurement is a function of gross savings (loss) in procurement dollars, procurement data costs, administrative costs, Quality costs, and reliability costs. (Modified author (U) abstract)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMT7

-0- 777 246 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB ONIO SCHOOL OF SYSTEMS AND LOGISTICS

The Impact on Avionic Logistic Support Costs of False Maintenance Actions.

(U)

DESCRIPTIVE NOTE: Master's thesis. JAN 74 Quintin L. 862 Pickard.George W. :Waterman. REPT. NO. SLSR-23-74A

# UNCLASSIFIED REPORT

CESCRIPTORS: \*Logistics support, \*Avionics, \*Life tests, \*Costs, Failure, Maintenance, Regression analysis. Treses

The objectives of the research were (1) to describe, quantitatively, the impact of remove, test OK occurrences on base level logistic support costs and (2) to derive a model to predict these Occurrences in terms of information available prior to system acquisition. Such a model will increase the accuracy of predicted logistic support costs for new or proposed systems. Limiting the scope of the research effort to base level, avionic, line replaceable unit maintenance, the authors selected a sample of 100 units from four aircraft currently in the AF inventory. The analysis reveals that test Ok occurrences represent thirty percent of the Suspected failures which are removed from the aircraft for repair. Twenty three percent of the manihours consumed to base level avionic maintenance were involved with a test OK unit. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 777 130 13/10

TETRA TECH INC PASADENA CALIF

Study of Commercia: Specifications for U. S. Navy Ships. (u)

DESCRIPTIVE NOTE: Final rept. Jan - Jun 73 on Phase

" SEP 73 203P FR REPT. NO. TT-TC-330 CONTRACT: NOOD14-73-C-0282 Friedland.Nathan :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval vessels, \*Government procurement, \*Specifications, Ship Structural components, Electronic equipment, Steel, Shipbuilding. Cost analysis. Willtary (U) requirements

IDENTIFIERS: \*Benefit cost analysis, \*Design to (U)

cost

Military and commercial specifications for shippuilding steel, electronics, and ship subdivision have been compared. It was found that steels used in building merchant and comma: ships are so similar that using a simplified set of integrated specifications would result in savings without appreciable reduction in strangth and durability. Electronic equipment is so complex and varied that a similar approach is possible only in limited cases-Merchant marine subdivision standards are not suitable for naval use. A survey of all specifications used in the Shipbuilding industry is desirable, with a view to establishing an integrated system of specifications suitable for military and commercial shipbuilding, to the mutual menefit of both sectors. (Author) (u)

# UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO?

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AIR FORCE OFFICE OF SCIENTIFIC PESEARCH ARLINGTON VA

Proceedings of a Symposium on the High Cost of Software Held at the Naval Postgraduate School. Wonterey, California, on September 17-.9. 1973.

(11)

SEP 73 1462 Goldberg.Jack :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Computer programs. \*Costs. .Newtings. Cost analysis. Production. Maintenance Programming languages. Semantics IDENTIFIERS: Design (U) (2)

The Monterey Symposium on the High Cost of Software was held in September 1973, under the joint sponsonship of the Air Force Office of Scientific Research, the Army Research Office, and the Office of Naval Research. The objective of the symposium was to consider what research is needed to achieve a major reduction in software costs. Attendance was by invitation. The 97 attendees were organized in five workshops. The attendees were in strong agreement that direct and indirect software costs are unnecessarily high and are growing rapidly, that they constitute a serious limitation on the effectiveness of information-processing Systems, and that the high cost is a consequence of the poor state-of-tharant of software design, production, and maintenance. There was a strong feeling of ungency that an energetic program of research be undertaken to advance the software art. The workshop discussions resulted in two sets of recommendations for a service-supported research program. (Modified author abstract) (3)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 776 962

14/5 15/5

BEEMAN ENGINEERING ASSOCIATES INC BOONTON N J

Cost Benefits Study - Interim 16mm Microfilm Container and Ree! Assembly.

DESCRIPTIVE NOTE: Interim rept. no. 5,
MAR 74 90P Barton,H, A.;
CONTRACT: DAAA21-72-C-0515
PROJ: DA-1-E-865803-M-726
MONITOR: EDS/R 27U

## UNCLASSIFIED !. EPORT

DESCRIPTORS: \*Microfilm, \*Containers, \*Cost DESCRIPTORS: \*\*\*\*ICOTTIM, \*\*CONTAINERS, \*\*\*OSTAINERS, \*\*Military procurement, Standardization, Inventory control, Data storage systems, Logistics, Military equipment, Surveys IDENTIFIERS: Benefit cost analysis (U)

The report provides technical, operational and cost information relative to the proceement and use by the government of the DoD Interim 16MM Microfilm Container and Reel Assembly. (Author)

## UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO?

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21/5 15/5

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Major Item Special Study (MISS). AH-1G Gas Turbine Engine (T53-L-136).

(11)

DESCRIPTIVE NOTE: Interim rept. 1 Jan 64-Jul 73.
APR 74 23P
REPT. NO. USAAVSCOM-TR-74-20

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Gas turbines, \*Helicopter engines. \*Logistics planning, Helicopters, Failure.
Removal, Costs, Savings, Reliability
IDENTIFIERS: T-53 engines, T-53-L-13B engines.
AH-1G aircraft, H-1 aircraft, H-1G aircraft. (U) \*Maintenance support planning, \*Mainterance management, 3-M system. \*Maintenance duta collection, Huey Cobra (U)

The report is designed to illustrate cost savings which would result from specific efforts in the areas of product improvement in quality and design. For the purpose of this study the cost savings produced in the area of product improvement are based on total elimination of a certain failure mode or modes. elimination of a Certain failure mode or modes. Appropriate modes are chosen because of their proportion of the total removals or their proportion in combination with other similar modes. These eliminated removals are then assumed to follow the distribution of the remaining removal modes. The actual cost savings are determined from the increase in the mean time to removal based on the new removal distributions. distributions.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 776 938 15/5

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Guidelines for Preparing Economic Analysis for Army Aircraft Product Improvement Proposals. (U)

DESCRIPTIVE NOTE: Final rept., MAR 74 23P Kassos MAR 74 23P Kass Kassos, Anthony G. , Jr:

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Army aircraft, \*Procurement, \*Cost analysis, Logistics, Cost effectiveness, Savings, (U) IDENTIFIERS: Product improvement proposals

The report contains the text of a presentation given by the AVSCOM Cost Analysis Division on 8 January 1974 to representatives from the various Directorates and Project Management Offices of AVSCOM. The purpose of the presentation was to provide AVSCOM Produce Improvement Proposal provide AVSCOM Produce Improvement Proposal (PIP) proponents with quidelines in preparing the economic analysis required for FY 76 PIP submittals to AMC. This report addresses all available guidance as of this date. It is intended as an introduction to economic analysis for the PIP proponent who is unfamilian with this discipline, but must prepare an analysis for his PIP submission. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT

AD- 776 914 9/5 17/7

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB

Summary of Results of Antenna Design Cost Studies.

FEE 74 81P Surezu.J. C.: REPT. NO. ATC-22 CONTRACT: F19628-73-C-0002. DOT-FA72WAI-261 PROJ: FAA-034-241-012 MONITOR: FAA-RD 74-20

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Radar antennas. \*Air traffic contro; systems. Radar beacons. Cost analysis. Cost effectiveness IDENTIFIERS: Design, DABS(Discrete Address (U) Beacon Systems). Discrete address beacon systems (U)

The Discrete Address Beacon System (DABS) will provide the primary Air Traffic Control (ATC) surveillance information for the 1980-1990 time period as it is introduced gradually as a replacement for the present Air Traffic Control Radar Beacon System (ATCRBS). This report Radar Beacon System (ATCRBS). This report discusses and summarizes the results of two DABS antenna system design-cost trade off studies performed by industrial concerns with substantial design, fabrication and field maintenance experience related to similar antenna systems now in the field. The data from these studies, was to be used to support other Lincoln Laboratory DABS studies leading to the definition and specification of a cost-effective system design. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 776 808 5/2

SYRACUSE UNIV N Y

Data Management Systems for Structured Information Retrieval.

(U)

(U)

DESCRIPTIVE NOTE: Interim rept. Jul 71-Jul 72, FEB 74 48P Groner, Leo H. ; Goel, Amrit

REPT. NO. TR-72-3 CONTRACT: F30602-72-C-0281 PRDJ: AF-5581 TASK: 558102

MONITOR: RADC TR-73-410

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Information retrieval, \*Data management, \*Cost effectiveness, Data processing, Information centers, User needs, Computer programming

The report describes some of the advantales and problems of using generalized data base management systems in information retrieval. A particular system, Data Manager -1, was studied to derive use and cost criteria. System costs were then obtained as a function of cost components and user demands for outputs. The methodology developed has been applied to a set of design problems relevant to GDMS/IR data base design. (Author)

## UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 776 781

15/5 13/13

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Economic Analysis of the Relevant Costs in Air Force Building Replacement.

(U)

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DESCRIPTIVE NOTE: Master s thesis.

JAN 74 104P Andrews.Melville M. . Jr.:
Joines.Jack L.:
REPT. NO. SLSR-17-74A

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Air force facilities. \*Buildings. \*Cost analysis. \*Replacement. Costs. Maintenance. Construction. Mathematical analysis. Theses. Life expectancy IDENTIFIERS: Present worth. Depreciation

The thesis describes and analyzes the relevant costs in an Air Force building replacement consideration and illustrates, through the use of economic analysis, the effects of the described relevant costs on the replacement decision. A regression analysis is accomplished to illustrate a method of predicting mainterance expenditures. Building deterioration, obsorescence, and effectiveness are discussed in terms of their effects on maintenance costs and performance of the assigned function. An economic analysis of a hypothetical replacement consideration illustrates the sensitivity of the replacement decision to inclusion of the costs of obsolescence and reduced functional performance. Deferred maintenance is assessed in terms of its effect on functional performance. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 776 539 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Auditing Cost-Effectiveness Analyses of Technological Changes.

DESCRIPTIVE NOTE: Final rept. Apr 72-Nov 73.
NOV 73 105P Hartman, James K. : Womer, N. NOV 73

REPT. NO. NPS-55HH73121A

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval aircraft, \*Maintenance, \*Cost DESCRIPTORS: "Naval aircraft, "Maintenance, "Cos effectiveness, Inventory control, Jobs. Production, Linear programming, Economic models. Statistical analysis IDENTIFIERS: WIPICS(Work In Process Inventory Control System), Work in process inventory control system, Production functions, Naval Air Rework Facilities (U)

A methodology is developed for auditing Cost effectiveness analyses of major technological changes. The methodology is applied to the Work in Process Inventory Control System (WIPICS) recently implemented at NARF, North Island. The approach involves using data on NAPE constitute to set impactions for NARF operations to estimate cost functions for each major program of the NARF both before and after the change. Cost companisons using these models do not show a clear cost savings for the WIPICS system. (4) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB

A Summary of the DABS (Discrete Address Beacon System) Transponder Design/Cost

17/7

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DESCRIPTIVE NGTE: Project rept.. 449 Goblick.T. J. : Robeck.P.

MAR 74

REPT. NO. ATC-27 CONTRACT: F19628 F19628-73-C-0002. DOT-FA72WAI-261

MONITOR: FAA-RD

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Air traffic control systems. \*Transponders. Radar beacons. Cost analysis.

Costs. Avionics
IDENTIFIERS: DASS(Discrete Address Beacon

Systems). Discrete address beacon systems. ATCRBS(Air Traffic Control kadar Beacon Systems). Air traffic Control radar beacon systems

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(U)

One of the major concerns in the DABS development program has been the cost of the DABS transponder. In order to realistically assess the impact on transponder cost of the many alternative techniques and design choices being considered for DABS. four study contracts were awarded to avionics study Contracts were a\*arded to avionics manufacturers to design and estimate costs of special circuitry (in Phase I) and complete transponders (in Phase II). The report summarizes the major results of these design/cost studies, which cover general aviation, military, and air carrier transponder designs (including a retrofit kit for the military APX-72 transponder). The transponder design/cost studies have had a marked influence on the design of the DABS signal and message formats. Since the cost studies were basically intended for comparing link options for DABS, the transponder specifications used in these cost studies do not correspond in detail to current DABS transponder correspond in detail to Current DABS transponder specifications. Therefore the cost data contained in this report cannot be taken to be completely representative of the cost of the finally specified DABS transponders. (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 776 127 1/2

DOUGLAS AIRCRAFT CO LONG BEACH CALIF

DC-9 Noise Retrofit Feasibility. Volume Lower Goal Noise, Performance and Cost Evaluation.

(U)

DESCRIPTIVE NOTE: Final rept. Jan 72-May 73. DESCRIPTIVE NOTE: Final rep
NOV 73 188P Dun
REPT. NO. MDC-J4355A
CChTRACT: DOT-FA72WA-3116
MONITOR: FAA-RD 73-124-1 Dunbar.w. R. ;

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Aircraft noise, \*Noise reduction, \*Exhaust systems. \*Control systems. Engine nacelles, Test methods, Static tests, Flight testing. Performance(Engineering), Jet transport planes, Cost analysis. Thrust, Endurance(General)

IDENTIFIERS: DC-9 aircraft, Evaluation The report covers the work performed in Phase 1.

The report covers the work performed in Phase 1, ground test and flight test, of the program. Exhuast system development tests were conducted on an engine static test stand to evaluate the lower goal exhaust system. Prototype components of the lower goal nacelie were designed and fabricated. The brototype components were tested for effect on engine performance and noise, and for effect on the compatibility with the JISO engine. A 100-hour durability test was performed, cycling the prototype nacelle through an accelerated simulated duty mission. A complete loads and stress analysis of the nacelle/airframe structure was performed. The inlet was tested in the icing tunnel for anti-icing bleed requirements and was tested for structural bleed requirements and was tested for structural capability to withstand hail and bird impact. A 20% thrust coefficient model was tested over a range of engine pressure ratios. (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 776 028 9/2

RAND CORP SANTA MONICA CALIF

A Computer Centralization Cost Model for Conceptual Design.

(11)

SEP 73 Seals.Eugene : Drezner. Stephen M. : REPT. NO. P-1268-PR CONTRACT: F44620-73-C-0011

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Central processing units. \*Job analysis, \*Cost analysis Systems analysis. Air Force, Communication equipment. Input output devices. Nemory devices. Computer programming. Maintenance. Manpower

(u)

The report describes a computer model developed to help investigate the costs of centralizing U.S. Air Force base-model computation workload. The model permits the analyst to estimate the cost of consolidating multiple existing or proposed facilities into fewer facilities. The report describes the model, the assumptions implicit in its world view and the inputs required by the applied. world view. And the inputs required by the analyst. The limitations of the model and possible future modifications are also discussed. (u)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 13/8

AD- 775 698

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analytical Approach to Optimizing Airframe Production CoSts as a Function Of Production Rate.

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DESCRIPTIVE NOTE: Master's thesis, JAN 74 174P Fazio,Pete Stephen H.; Fazio, Peter F. ; Russell, REPT. NO. SLSR-30-74A

UNCLASSIFIED REPORT

CESCRIPTORS: \*Airframes, \*Production control. \*Costs. Industrial production. Government procurement, Aircraft industry, Scheduling, Optimization, Theses

The objective of the research is to analyze all elements of airframe production cost in terms of their sensitivity to production rate and to identify a methodology which will optimize rate of production with respect to total #irframe costs for a fixed UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZONOT

AD- 775 628

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PRC SYSTEMS SCIENCES CO MOLEAN VA

Development of Cost Estimating Relationships for FLEETSATCOM. Volume 1.

DESCRIPTIVE NOTE: Final rept. 15 Jun 73-14 Jan 74.

JAN 74 177P Spussell.Eugene R. :Heyer.

Fernando: REPT. NO. PRC-R-1800 CONTRACT: N00014-73-C-05-5

UNCLASSIFIED REPORT

DESCRIPTORS: \*Satellite communications.
\*Communication networks. \*Cost analysis.
Communication satellites. Data transmission systems. Data processing systems. Data links. Ground support equipment. Costs IDENTIFIERS: \*Cost estimating relationships

Historical data relating to the cost and physical and performance characteristics of equipment Comparable to the FLETSATCOM system elements have been collected and analyzed. CER's that relate the cost to performance or physical parameters have been derived for the FLEETSATCOM system elements. Estimates of the cost uncertainty associated with each of the FLEETSATCOM system elements have been incorporated into a computer program with the resultant cutput a probability distribution of the costs of the total FLEETSATCOM system. Finally, throughout the report the CER's have been validated by applying them to the technical and physical parameters and for the planned quantities. as of September 1973, of the FLEETSATCOM system elements. (Author)

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procurement quantity.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

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GEORGIA INST OF TECH ATLANTA ENGINEERING EXPERIMENT STATION

Study of Comparative Costs for Far-Field Antenna Patterns Determined by Near-Field Measurements and by Far-Field Measurements. (U)

DESCRIPTIVE NOTE: Final rept. 15 Jan 73-31 Jan 74. JAN 74 76P Rodrigue,G. P. ;Burns. JAN 74 76P ROO Charles P.; REPT. NO. GIT-A-1498 CONTRACT: DAAHO1-73-C-0430

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Antenna radiation patterns. \*Phased arrays, Near field, Far field, Cost analysis (U)

Antenna pattern measurement costs for both acceptance testing and production testing of a large phased array were determined for both near-field and far-field measurement techniques. Operating costs depend on the thoroughness to which the antenna is tested. Extremely large amounts of data can be generated very efficiently using the near-field technique. However, most test programs are limited by budget and time considerations to a relatively small volume of data. Since requirements for more data would always favor the near-field techniques, a limited set of measurements comparable to previous far-field measurement experience was used. (Modified author rostract) (U)

#### UNCLASSIFIED

DDC REPORT BIBLIOGPAPHY SEARCH CONTROL NO. ZOMO7

AD- 775 3' 3 13/10 11/6

BOEING CO SEATTLE WASH NAVAL SYSTEMS DIV

Trade-Off Study for Materials and Fabrication Processes for Advanced High Performance Ship Applications. Volume II.

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DESCRIPTIVE NOTE: Final mept. 15 Jun 73-28 Feb 74. FEB 74 253P Bosworth.Thomas J. : FEB 74 253P Boswo REPT. NO. D180-17941-1-Vol-2 CONTRACT: N00024-73-C-5506

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-775 330. DESCRIPTORS: \*Ships. Trade off analyses.
Materials. Fabrication. Hydrofoil craft. Surface effect Ships. Air cushion vehicles. Aluminum alloys. Titanium alloys. Steel. Nickel alloys. Cost analysis. Costs IDENTIFIERS: Manufacturing, High performance

IAC ACCESSION NUMBER: MCIC-089617
IAC DOCUMENT TYPE: MCIC -HARD COPY--Contents: Candidate structural materials: Process ratings for materials: Cost analysis: Performance (design) analysis: Risk assessment: Shipyard capabi'ities: and. Annotated bibliography of selected references. (U)

AC SUBJECT TERMS: M--(U)5083, S086, 545G, 6061, TI-6AL-4V, TI-6AL-2CB-1TA-1XO, HY-80, HY-130, HY-180, 9NI-4CO-0.20C, 22-13-5 STAINLESS, 15-5PH, 17-4 PH, INCONEL 625, INCONEL 718, EXTRUSIONS, PLATE, HEAT TREATING, MACHINING, JOINING, SPECIFICATIONS, NONDESTRUCTIVE TESTING, COSTS, DESIGN, CORROSION, PHYSICAL PROPERTIES, TENSILE PROPERTIES, FATIGUE, SHIPS.: IAC SUBJECT TERMS:

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PAGE 399 AD- 775 329

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL 10. ZOMO7

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Survey of Methods of Teaching Mathematics.

(U)

DESCRIPTIVE NOTE: Final rept.. DEC 73 33P Kovach DEC 73 33P M REPT. NO. NPS-53KV73121A Kovach.L. D. ;

UNCLASSIFIED REPORT

DESCRIPTORS: \*Teaching methods, \*Mathematics, Costs, Teaching machines, Computer graphics, Visual aids, Tape recording, Magnetic tape, Training films

(III)

A number of nontraditional methods of teaching mathematics are studied. The methods are compared by listing their advantages, disadvantages and cost. UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 775 233

15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

Investigation of the Impact of Rent-Acrossthe-Board.

(U)

JAN 74 81P REPT. NO. LMI-74-7 CONTRACT: SD-321 PROJ: S0-321-14

UNCLASSIFIED REPORT

DESCRIPTORS: \*Military facilities. \*Military equipment. \*Leasing. \*Industrial plants. Contracts. Costs. Logistics planning. Management

pranning and Control

IDENTIFIERS: \*Rent across the board. Income.

Benefit cost analysis. Sales. Taxes. Insurance

(U)

Under Rent-Across-the-Board rent would be collected for government-owned facilities based upon mere possession by contractors regardless of amount of use on either government or commercial products. The impact of rent-across-the-board on product costs was found to be less than four percent by two methods. One method was a case study of a contractor who had bought an Industrial Reserve Plant. The second method was an analysis of 16 airframe manufacturing plants using overall cost and equipment ratios. The rental rates given in the Armed Services Procurement Regulation were examined and found to be too low and not Comparable to commercial practice. The increase in administrative costs to adopt rent-across-the-board is analyzed. Finally, contractor comment on rent-across-the-poard is presented and discussed.

(U)

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AD- 775 233

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZGMO7

AD- 774 744 13/10 14/1

SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA CALIF

Cost Considerations for Handling Data Budys

OCT 73 52P Peloquin.R. A.; REPT. NO. SIO-Ref-73-33 CONTRACT: N00014-69-A-0200-6043

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Sponsored in part by National Science Foundation. Washington. D.C. Report on North Pacific Experiment. DESCRIPTORS: \*Tenders(Vessels). \*Buoys. \*Cost analysis. Handling. Deployment. Ship personnel. Fuel consumption. Costs. Decision making

Plans for moving significant numbers of moored buoys must consider the costs of the Servicing ship and the buoy handling system as well as the buoy costs. The selection of the ship which is to perform the deployment and servicing should be guided by objectively derived cost considerations. (U) (Author)

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DDC REPORT BIBLIGGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 774 740 9/2

**:**u)

(U)

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Computer Network Usage-Cost-Benefit Analysis-1.

DESCRIPTIVE NOTE: Information systems working paper.

DEC 73 29P Lientz.Sennet P.:

REPT. NO. Working Paper-7-74

CONTRACT: NO0014-67-A-0269-0027

PROJ: NR-049-345

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Communications networks. \*Cost effectiveness. Computer programming IDENTIFIERS: \*Computer networks. Benefit cost (1) analysis (11)

Fith the establishment of several computationcommunication networks several questions arise as to the cost-effectiveness of a network for a particular potential user. Analysis is necessary to determine which software systems can be established and used on a network rather than the internal computer of user's organization. The timings of transitions to the network must also be found. A methodology for cost/penefit analysis is presented. For multiple Systems. an extended horizon and restricted resources, an integer programming method is developed. Approximations for planning and a discussion of stability are given. A numerical example is included. (Author) (11)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

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ASSISTANT SECRETARY OF DEFENSE (SYSTEMS ANALYSIS) WASHINGTON D C

Proceedings of the Annual Department of Defense Cost Research Symposium (8th) Held at Airlie, Va., 6-8 Nov 73.

NOV 73 500P

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 13 Oct 72. AD-758 144. DESCRIPTORS: DESCRIPTORS: \*Cost analysis. \*Department of Defense, \*Meapon systems, \*Symposia, Data acquisition, Management planning and control. Cooperation, doint military activities. Information systems. Specifications, Economics. Uncertainty, Personnel, Distribution, Standards, Classification, Accounting, Methodology IDENTIFIERS: Objectives

The document contains proceedings of the Eighth Department of Defense (DOD) Cost Research Symposium held in 1973 at Airlie, Virginia The Cost Research Program was established by the DOD in 1966. The objectives are to Establish cost research goals DOD-wide, to avoid research gaps or duplication, to coordinate joint cost research efforts, to disseminate the results of research, and to plan the symposia.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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ARMY ELECTRONICS CONMAND FORT MCNMOUTH N J

Waintainability Demonstration Cost Savings Analysis.

(u)

DESCRIPTIVE NOTE: Technical rept.. 73 28° ECC#-4167 NOV 73 REPT. NO. EC Cox.Tony D. :

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Army equipment. \*Maintenance. \*Cost analysis. \*Savings. Distribution functions. Sampling. Standard deviation. Statistical tests. Exponential functions
IDENTIFIERS: Lognormal density functions. Cri (U) square tests. Exponential density functions

Where equipment can be put back into operation by a quick remove, and replace operation maintenance repair times can be adequately described with an exponential distribution. A new test plan on the mean is introduced, which assumes an exponential distribution of maintenance repair times and is based upon the chi square statistic. An adoption and use of this test plan Could save the government as much as \$2.400 on each maintainability demonstration. At higher levels of maintenance, the distribution of repair times was predominantly log normal. However, there were some exceptions. Test Plans 1 and 2 of MIL-STD-471A can safely be used in these situations. It is also, pointed out that an optimum test plan for the log normal distribution, and other two parameter distributions would test for the mean and stadard deviation of the distribution. Therefore, a new test plan is introduced, which tests for the standard deviation of the maintenance repair time distribution. (U) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 773 848

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RCA MISSILE AND SURFACE RADAR DIV MODRESTOWN N J

Synchronous Satellite Tracker Investigation.

(U)

Final rept. 23 Feb 72-21 May 73. 3P Gross.S. D. :Liston.d. : DESCRIPTIVE NOTE: NOV 73 253P Grocontract: F30602-72-C-0225

# UNCLASSIFIED RE ORT

DESCRIPTORS: \*Satellite tracking systems. \*Radar DESCRIPTIONS: "Satellite tracking systems. "Radar tracking necessary tracking and arrays. Synchronous satellites. Performance(Engineering), Costs. Optimization. Very high frequency, Ultrahign frequency. Computer programs IDENTIFIERS: Cost comparison

(U)

IAC ACCESSION NUMBER: GC-740372 IAC DOCUMENT TYPE: GACIAC -HARD COPY-AC DOCUMENT TYPE: GACIAC -HARD COPY—
The study provides a design analysis and cost optimization on a phase array radar expable of detecting and tracking targets located at synchronous altitudes and beyond. The report describes parametric radar performance and cost models for several generic radar systems which were sized and optimized to satisfy the above requirements. The results of a parametric cost comparison among the various candidates is given and design detail and preliminary abolice foot data are operated for two various candidates is given and design detail and preliminary absolute cost data are presented for two system candidates selected for further study. These candidates are: (1) a phase-phase steered VHF (140 MHz) radar configuration which uses a tetrode (EIMAC 4CPX250K) power amplifier module per element in the transmit array and (2) a UHF (435 MHz) time scanned array radar (TSAP) configuration. (Author) (TSAR) configuration. (Author)

IAC SUBJECT TERMS: G--(U)RADAR. PHASED ARRAY RADAR.

RADAR SURVEILLANCE, ARTIFICIAL SATELLITES, SYNCHRONOUS
SATELLITES, REMOTE SENSING, SPACECRAFT TRACKING, SPACE
SURVEILLANCE(GROUND BASED), TRACKING RADAR, RADAR CROSS
SECTIONS, COST ANALYSIS, ORBITS. DETECTION PROBABILITY,
TARGET SIGNATURES, GROUND BASED DETECTORS, SEARCH RADAR.
SLANT NANGE, FALSE ALARMS, COMPUTER MODELS. COMPUTERIZED
SIMULATION;

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 773 014

15/5 13/10

FRANKEL (E G) INC CAMBRIDGE MASS

Life Cycle Cost Analysis of Merchant Ship Expeditionary Logistic Facilities.

(U)

DESCRIPTIVE NOTE: Final meet. 29 Jun-15 Got 73.
OCT 73 152P Frankel.Ernst G. Idohnsen. OCT 73 152P frankel.
Arthur W. :Padis.Alexander A. :
REPT. NO. 1039(G)-3
CONTRACT: DAAK02-72-C-0021

#### UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AC-741 221. DESCRIPTORS: \*Merchant vessels. \*Logistic Support. Cost analysis. Logistics, logistics planning. Cranes, Barces, Unloading, Cargo ships

(U)

(U)

The report develops and delineates the ten-year life cycle cost of six merchant ship expeditionary logistic facilities (ELFs), selected by the Naval Facilities Engineering Command. in the format of U. S. Army Regulation No. 37-18. The merchant ships selected include two baroe carriers. three bulk carriers and one dry cargo Carrier. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD~ 772 078 5/1 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

Guide for Monitoring Contractors Indirect Costs.

DEC 73 122P REPT. NO. LMI-72-17 CONTRACT: SD-321 PROJ: SD-321-173

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Military budgets. \*Contracts. \*Cost analysis. Logistics support, Management planning and control. Forecasting [IDENTIFIERS: \*Indirect costs [IDENTIFIERS]]

Pursuant to Task Order 72-17, the report is submitted in the form of a proposed guide for use by government monitors to obtain better control of contractors' indirect costs in government contracts. It contains sections on budget control and reporting.' Guidance is provided for evaluating the reasonableness of budgeted costs through comparison and engineering techniques. The guide is especially applicable to the monitoring of costs at plants which perform major government contracts. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 771 989 5/3 15/5

GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS

Economic Aralysis Handbook Theory and Application. Volume IV. Case Studies. (U)

DESCRIPTIVE NOTE: Contract rept. (Final). Sep 72-Aug 73.

NOV 73 168P Stament.Alfred D. :Bennett.

Walter H.: REPT. NO. GAD-CR-22-Vol-4 CONTRACT: DAHC19-69-C-0017

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-771 986. DESCRIPTORS: \*Army. \*Economics. Management planning and control. Log'stics support. Cost analysis. Maintenance. Data processing.

Sensitivity
IDENTIFIERS: \*Economic analysis. Benefit cost
analysis. Sensitivity analysis

The four-volume randbook is designed as a practical guide for preparers and reviewers of Army economic analysis studies. The coal is to facilitate improved analysis which will lead to better decisions and use of Army resources. Economic analysis in the context of this handbook is concerned with the costs and benefits of alternative ways of accomplishing a particular task. The handbook is intended for analysis of investment projects wet to be finally approved or disapproved. It is not intended to provide insights on the best way to justify prior decisions on investment projects. Volume four provides two case studies of actual Army economic analyses. Each case study describes and evaluates the pertinent analyses and presents a catalog of lessons learned. The case studies helped shape the content and extent of attention given to various subjects in Vols one to three and provided illustrative examples. (Modified author abstract)

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AD- 771 986 5/3 15/5

GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS

Economic Analysis Handbook Therry and Application. Volume III. Guide for Reviewers of Economic Analysis.

DESCRIPTIVE NOTE: Contract rept. (Final). Sep 72-Aug 73. NOV 73 49P Bennett, Walter H. :Stament.

Alfred D. T REPT. NO. OAD-CR-22-Vol-3 CONTRACT: DAHC19-69-C-0017

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-771 986 and Volume 4. AD-771 989.

DESCRIPTORS: \*Army. \*Economics. Management planning and control. Logistics support. Decision making. Cost analysis (U)

IDENTIFIERS: \*Economic analysis. Benefit Cost analysis (U)

The four-volume handbook is designed as a practical guide for preparers and reviewers of Army economic analysis studies. The goal is to facilitate improved analyses which will lead to better decisions and use of Army resources. Economic analysis in the context of this handbook is concerned with the costs and benefits of alternative ways of accomplishing a particular task. The handbook is intended for analysis of investment projects yet to be finally approved or disapproved. It is not intended to provide insights on the best way to justify prior decisions on investment projects. Volume three is written for reviewers of economic analyses. It is presented in terms of a Series of key questions addressing such matters as assumptions, methodology, formulation of alternatives, and presentation of results. (Modified author abstract)

#### UNCLASSIFIED

EDC SEPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

C- 771 957 13/9 13/8

SUMMA CORP CULVER CITY CALIF HUGHES HELICOPTERS DIV

Development of a Low-Cost Composite Die Using High-Energy-Rate Forming (HERF).

DESCRIPTIVE NOTE: Final nept..

NOV 73 53P Dingle.Gordon K. :Leach.

Joseph F. Juni
REPT. NO. H-1-73-76
CONTRACT: DAAG46-73-C-0026
MONITOR: AWARC CT9-73-43

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*High energy rate forming. \*Dies. Titanium alloys. Stainless steel. Helicopters. Fabrication. Cost. Reduction IDENTIFIERS: Titanium alloy 6Al 4V. Steel 321

A program was conducted to design, fabricate, and test/evaluate a low-cost composite die system for high-energy-mate forming (HERF) of titanium and high-temperature alloy parts commonly used on helicopters. The composite die design was evaluated by conducting forming operations on seven pieces of 321 stainless stoel and eight pieces of 6Al-4V titanium alloy. The composite die met the casign objectives of low cost (half that of conventional dies), short lead time (at least half that of conventional dies). and medium life (500 cycles). (Modified author abstract)

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AD- 771 793

INFORMATICS INC ROCKVILLE MD

Intelligence System Designer's Memory Evaluation Program. (U)

DESCRIFTIVE NOTE: Final rept. Jun 72-Aug 73. NGV 73 131P Savas.Mary Ann : Corley.

Steven : REPT. NO. TR-73-1561-1 CONTRACT: F30602-72-C-0360 MONITOR: RADC TR-73-328

## UNCLASSIFIED REPORT

DESCRIPTORS: \*Memory devices. \*Cost effectiveness. \*Computerized simulation. \*Computer programming. Instruction manuals, Performance(Engineering). (U)

IDENTIFIERS: Performance evaluation. HIS 835 computers. GESIM programming language (U)

The selection of storage equipment is an integral part of intelligence systems design. Intelligence Data Handling Systems are characterized by large files whose elements are constantly accessed, updated, and/or deleted by a number of processes and procedures. Too often, the minimum cost of a system is not attained due to the difficulties of communication. system is not attained but to the difficulties of comparing the cost and/or technical performance of various storage devices. The Memory Evaluation Program has been designed to assist in the determination of the best on, in some cases, a feasible solution to meet storage requirements. It is a staulation program based upon maintenatios-lysound principles that closely parallel the procedures used by large-scale computers to perform input/output operations with storage devices. Therefore, it is possible to study more alternative solutions and to have more performance data available with which to perform comparative analyses. Algorithms for evaluating magnetic tabs devices, and direct access storage devices, have been included in the simulation programs. (Modified author abstract)

#### UNCLASSIFIED

DDC REPORT SIBLIDGRAPHY SEARCH CONTROL NO. ZONO?

AD- 771 439

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

Computer Network Usage--Cost/Benefit Analysic - I. (U)

DESCRIPTIVE NOTE: Technical rept... DEC 73 29P Lientz.Bennet P. :
REPT. NO. 19-5
CONTRACT: NOCO14-67-A-0269-0027

## UNCLASSIFIED REPORT

Availability: Available in microfiche only. DESCRIPTION: "Data transmission systems.

«Communications networks. Economic models. Cost effectiveness (U) IDEN: IFIERS: \*Computer retworks. \*Senefit cost analysis (U)

With the establishment of several computation-Communication networks several questions arise as to the cost-effectiveness of a network for a particular user or potential user. Analysis is necessary to determine which software systems can be established and used on a network rather than on an internal machine of the user's organization. The timings of the transitions to the network cust also be found. A methodology for cost-meneral manysis is breasanted. For myltiple systems are elemented. presented. For multiple Systems, an extended horizon, and restricted hardware resources an integer Programming method is developed. Approximations for planning and stability are given. A numerical example is included. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 771 432 12/2

STANFORD UNIV CALIF DEPT OF STATISTICS

Denumerable State Markov Decision Processes with Unbounded Costs.

(u)

DESCRIPTIVE NOTE: Technical rept., NOV 73 62P Reed, Frank C.; REPT. NO. TR-157, TR-22 CONTRACT: N00014-67-A-0112-0052, HSF-GK-35491 PROJ: NR-042-002

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Sponsored in part by Contract N00014-67-A-0112-0058, TR-42.

DESCRIPTORS: \*Decision theory, \*stochartic processes, \*Linear programming, Probability density functions, Costs, Random variables, Theorems IDENTIFIERS: \*Markov decision processes, Markov processes, Markov processes (U) processes. SemiMankov processes

The report establishes sufficient conditions for both the existence of stationary optimal policies and the optimality of stationary policies in Markov the optimality or stationary polities in markey deciation processes with unbounded costs. The otrimization criteria considered are minimum expected discounted cost over an infinite horizon and minimum expected average cost per unit time. Sufficient expected average cost per unit time. Sufficient conditions that one may frequently establish in applications are given for the existence of a stationary optimal policy for both optimization criteria. It is also shown that for both optimization criteria optimal acationary policies are associated with the solution of the usual functional acquaitons that enjoy in Manhow and interpresses. equations that arise in Markov uccision processes with bounded costs. With unbounded costs, however, one must place additional constraints on \*\*\* 35 eso-utions to assure that the implied stat onary policy is optimal. (Author) (4)

#### UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

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AD- 771 102 17/2 20/6

NAVAL ELECTPONICS LAB CENTER SAN DIEGO CALIF

Fiber- and Integrated-Optic Communication

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DESCRIPTIVE NOTE: Research and development rept. 1 Oct 72-3: Mar 73. AUG 73 41P J.: REPT. NO. NELC-TR-1891 Martin. W. E. : Albares.D.

CONTRACT: ARPA Order-2158

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Optical communications, Fiber optics.
Integrated circuits. Optical equipment.
Wavequides. Infrared communications. Military
applications. Feasibility studies. Cost
effectiveness. Avionics
IDENTIFIERS: Optical waveguides. Benefit cost
analysis (U) analysis

Applications assessment studies and a preliminary cost-benefit analysis are performed which indicate areas of definite performance gains and cost savinos from use of fiber-obtic and integrated-optical-circuit (1901) sechnologies, preliminary to the companies. rrom use of finer-optic and integrated-optical-circuit (IGC) technologies, particularly in avignics systems. Progress in fiber optics, which has made possible the use of conventional off-the-shelf Components in proposed systems with immediate applications, is shown. Progress is also shown in applications, is shown, progress is also shown in IOC technology, particularly in modulators for use in proposed high-bandwidth systems. Several unique IOC devices are investigated which promise to have the capability to use extremely-wide-bandwidth optical waveguides. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20M07 AD- 771 354 15/5 NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT (U) Yavy Systemwide Stock Rationing. DEC 73 Biggins.J. A. ;Rcrke,#. REPT. NO. 105

UNCLASSIFIED REPORT

DESCRIPTORS: \*Naval logistics, \*Inventory control, Cost analysis, Lead time IDENTIFIERS: Benefit cost analysis (U)

The purpose of the study was to develop a Navy stock rationing policy for wholesale material. The study covers the following areas: (1) an analysis of existing Navy stock rationing practices; and (2) an analysis of a rationing policy with cost-benefit analysis. The study recommends, given certain conditions, a rationing policy based upon control levels. (Author) (U) UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 770 927 13/3 15/5

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN

Guidance for Selection of Equipment Fleet.

(U)

DESCRIPTIVE NOTE: Technical rept..
OCT 73 38P Rood.Omer E. . Jr:
REPT. NO. CERL-TR-P-18
PROJ: DA-4-A-664717-D-895

UNCLASSIFIED REPORT

DESCRIPTORS: \*Army operations. \*Construction equipment. \*Costs. Earth handling equipment. Road building equipment, Decision making, Production control, Mathematical models
IDENTIFIERS: Cost estimating relationships (U)

The report presents a guide for equipment fleet selection that will enable military engineers to accomplish their Theater of Operations construction projects at the lowest cost to the taxpayer. The equipment selection guide is presented in card format, which, after review and field-testing by the Engineer School, should be distributed to field engineers. The report also presents the consideration, methodology, and models used in the development of this equipment selection caro. (Author)

PROJ:

FMSD-971174

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD~ 770 839 15/5 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Development of Cost Parameters and Inventory Level Decisions at DSUs (Direct Support Units),

NDV 73 99P Kaiser,Robert D.;Boisseau, REPT. NO. LMI~73-8 CONTRACT: SD-321 PROJ: SD-271-182

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Army equipment, \*Inventory control,
\*Cost analysis, Mathematical models, Inventory,
Logistics, Costs, Savings, Decision making
(U)
IDENTIFIERS: \*Federal stock numbers,
CASPAR(Condensed Army Stock Plan
Analyzer), Condensed army stock plan analyzer
(U)

The Condensed Army Stock Plan Analyzer (CASPAR) Model, developed earlier by LMI, was revised and modified, to permit economic stockage decisions at Army Direct Support Units (DSUs) using a stockout cost imputed from customer specifications of minimum required service levels. The report outlines necessary changes to permit use of CASPAR, including cost-to-hold and cost-to-order. Evaluation of data resources revealed that available DSU data can be used to estimate values of the independent variables, for subsequent use in solution of the multiple regression model. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 770 746

(U)

\* CANADIAN COMMERCIAL CORP OTTAWA (ONTARIO)

5/9

A Conceptual Design for the Cost Evaluation of Alternative Educational Systems in Managing the Air Force Academy and Air Force ROTC.

(11)

DESCRIPTIVE NOTE: Final rept..

SEP 73 189P Judy.Richard W.:Levine.
Jack B.:Russel.R. Stephen: Van Wijk.Alfons
:Wolfson.William G.:
CONTRACT: F41609-71-C-0037
PROJ: AF-1125
TASK. 112503
MONITOR: AFHRL TR-72-2

# UNCLASSIFIED REPORT

DESCRIPTORS: \*Air Force. \*Education.

\*Instructional materials. Models. Simulation.
Costs. Assessment. Universities. Sugets.
Planning. Canada
IDENTIFIERS: \*Air Force Academy. \*Air Force
Reserve Officers Training Corps
(U)

Designs of two models customized to the management needs of the U.S. Air force Academy and the Air Force (ROTC) Reserve Officers
Training Corps are detailed. The model. upon implementation. would permit administrators to obtain answers to various 'what if...' management questions. The design of these models was based on a situation analysis of the U.S. Air Force Academy and the Air Force ROTC and a state—of-the—art analysis of existing educational cost models. No solution was attempted for the difficuit problem of obtaining good measures of the effectiveness of educational systems: these are resource requirements prediction models. This effort has produced customer participation and acceptance: implementation is for the future.

(Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 770 556 5/10

MICHIGAN UNIV ANN ARBOR ENGINEERING PSYCHOLOGY LAB

Costs and Payoffs in Perceptural Research. (U)

DESCRIPTIVE NOTE: Technical rept., 60P Winterfeldt Detlof V. : Edwards, Ward ;

EPT. NO. 011313-T CONTRACT: N00014-67-A-0181-0049, ARPA Order-2105 PROJ: NR-197-021

#### UNCLASSIFIED REPORT

DESCRIPTORS: \*Perception(Psychology). Motivation, Costs, Response, Mathematical IDENTIFIERS: Payoffs

A persistent problem in psychological research that reaches conclusions about inaccessible processes on reaches conclusions about inaccessible processes on experiences inside a subject's head is to validate those conclusions—that is, to exhibit persuasive reasons to believe that emitted behavior in some sense faithfully reports inaccessible processes. In the mid-1950s, perceptual researchers widely adopted an approach that might be called validation by chaidity. If the experiments is willied. adopted an approach that might be called validation by cupidity. If the experimenter is willing to define a correct response, he can reward the subject for errect responses and not for wrong ones; however, costs and payoffs are rather fæeble means of instructing a subject what to do, or of ensuring that he does it. (Modified Juthor abstract) UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD- 769 905 10/2

UNION CARSIDE CORP CLEVELAND OHIO CONSUMER PRODUCTS

Low Cost Oxygen Electrodes. (U)

DESCRIPTIVE NOTE: Interim rept. no. 4 (Final). 31 Jan-11 Ma/ 73.

JUL 73 106P
F. : Kordesch.K. V. :Scarr.R.

CONTRACT: DAAK02-71-C-0297 PROJ: DA-1-T-661102-A-34-A
TASK: 1-T-661102-A-34-A-03

# UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Mar 73. AD-766 773. DESCRIPTORS: (\*Electrodes, \*Fuel ceils).

UESUKIFIONS: (\*Electrodes), \*rue! Gelis!.
(\*Oxygen, Electrodes). (\*Air. Electrodes).
Carbon, Plat'num. Teflon. Catalysts. Supports.
Phosphoric acids. Stability. Manufacturing
methods. Reliability. Fabrication. Costs
IDENTIFIERS: \*Hydrogen air fuel cells. Performance evaluation

(U) The purpose of this contract was the development of a low cost air electrode for medium temperature (130C) immobilized phosphoric acid (matrix) (130C) immobilized phosphoric acid (matrix) fuel cell. Thin carbon electrodes catalized with 1 to 2 mg Platinum per sq. cm performed on the average between 0.55 and 0.60 volt (terminal voltage) at 100 mA/sq. cm. X-ray fluorescence was used to determine the distribution and the amount of catalies actually deposited. Broadening of the was used to determine the distribution and the amout of catalyst actually deposited. Broadening of the X-ray diffraction lines due to scattered radiation indicated a Pt-crystallite size ranging from 70 to 120 A. Long-term testing of these electrodes has shown that the chemical and mechanical stability of the catalyst and structural material are quood. i.e..

operation for over 1000 hours above 0.6 volt was
achieved. The degradation rate beyond 500 hours
was extremely low (10 mV per 1000 hours).

Carbon anodes with one mg Pt/sg. cm showed a remarkable resistance to Co-poisoning. (Author) (U)

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NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Minimizing the Cost of Projects in Naval Shipyards.

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PAGE

TE: Doctoral thesis, DESCRIPTIVE NOTE:

SEP 73 Shackelton, Norman John , Jr:

## UNCLASSIFIED REPORT

DESCRIPTORS: (\*Shipyards, Cost effectiveness), (\*Job, \*Scheduling), Management planning and control, Manpower, Costs, Nonlinear programming, Linear programming, Dynamic programming, Quadratic programming, Allocations, Network flows, Theses, Computer programs. Navy IDENTIFIERS: Integer programming. Resource (U)

allocation

(U)

The thesis is concerned with a problem of scheduling that arises in naval shippards as well as in many other organizations. The problem considered is that of minimizing the total cost of a project with limited mangover available from the various with limited manpower available from the various shops and where the number of mandays to accomplish each activity in the project is specified. Total project cost consists of normal direct labor cost, overtime cost, and a penalty for exceeding some specified target date. It is shown that this problem includes several other, more common scheduling problems such as jourshop scheduling. The relationship among the various problems is described including the use of existing solution procedures to solve special cases of the shipyard problem. (Modified author abstract)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 8/7

AD- 768 983

8/13

OXFORD UNIV (ENGLAND) DEPT OF AGRICULTURAL SCIENCE

The Cost-Effectiveness of Torrain Evaluation. Volume 1. Cutline of Project: Field Work in 1971.

(U)

(U)

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DESCRIPTIVE NOTE: final technical rept..
SEP 73 131P Beckett.P. H. T.
CONTRACT: DAJA37-71-C-0697 Beckett.P. H. T. :

## UNCLASSIFIED REPORT

DESCRIPTORS: (\*SOILS. GEGLOGICAL SURVEY). TERRAIN. MAPPING. COST EFFECTIVENESS. GREAT BRITAIN IDENTIFIERS: \*SOIL SURVEYS. SOIL CLASSIFICATION

The aim of this project is to analyse the influence of all relevant choices between procedures for sampling, classifying, and mapping soils or soil Properties. and for evaluating and presenting soils information. on the truth and reliability of the result. The results are expected also to be applicable to maps, etc., of the other terrain properties. (Author)

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DDC REPORT BIBLIDGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 768 826 15/5

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INSTITUTE FOR DEFENSE ANALYSES ARLINGT IN VA

The Change Process in Weapons System Acquisition.

(u)

DESCRIPTIVE NOTE: Final rept.,
AUG 73 93P Douglas.William J.;
CONTRACT: DAHC15-73-C-0200 DESCRIPTIVE NOTE:

#### UNCLASSIFIED REPORT

Availabi.ity: Available in microfiche only. x
SUPPLEMENTARY NOTE: Prepared in cooperation with Ketron.
Inc., Wayne, PA. Rept. no. KTR-703-2.
DESCRIPTORS: (\*GOVERNMENT PROCUREMENT. WEAPON SYSTEMS).
COSTS, CONFIGURATION, MILLITARY REQUIREMENTS. GRAPHICS.
DESIGN. MANAGEMENT PLANNING AND CONTROL (U)
IDENTIFIERS: \*BENEFIT COST ANALYSIS. LOGISTICS
MANAGEMENT MANAGEMENT

The change process in weapons system is evaluated with regard to cost growth, time, and change volume. Configuration management procedures are reviewed and the volume of ECP's is related to some specific weapons systems and military agencies. The causes of change are examined and recommendations are made for improving the process. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 768 787

15/5

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Guidelines for Design to Unit Production

(0)

DESCRIPTIVE NOTE: Technical rept. OCT 73 19P REPT. NO. ECCM-4162 Trigg.Clifton T.:

# UNCLASSIFIED REPORT

DESCRIPTORS: (\*ARMY DCUREMENT, MILITARY REQUIREMENTS).
DESIGN. COSTS, PRODU DN
IDENTIFIERS: DESIGN TO COST ANALYSIS ( DESCRIPTORS: (\*ARMY

The introduction of DDD Directive 5000.1. AR 1000-1 and the new material acquisition quidelines has been followed by numerous directives, policy statements, and similar papers that philosophically address the issue of Design to Unit Production Cost (DTUPC). The quidance on DTUPC has been evolutionary in character, and therefore, the concent production. DTUPC has been evolutionary in character, and therefore, the report represents a synopsis of the more saliant points of DTUPC implementation. As such it describes the DTUPC, explores the criteria of when it should be applied, suggests methods for development of the DTUPC, and provides quidance for the establishment of tracking procedures. The report is of an abstract nature, to be used as a ready reference. It is not meant to be definitive to the point of addressing the DTUPC, as would be the case in a handbook or procedural document. As the DTUPC philosophy continues to evolve and experience is gained, more detailed procedural documents will be published. (Author) documents will be published. (Author) (U)

AD- 768 826

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AD- 768 787

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 768 731

15/5 5/1

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Application of the Penalty Cost Model to Centrally Managed Items, (U)

OCT 73 35P Crum,G. S.; REPT. NO. 102 PROJ: FMSO-971164

#### UNCLASSIFIED REPORT

PESCRIPTORS: (\*NAVAL EQUIPMENT, \*INVENTORY CONTROL).
COSTS, MATHEMATICAL MODELS, NAVAL PROCUREMENY,
SENSITIVITY, DECISION THEORY
(U)
IDENTIFIERS: COMPUTERIZED SIMULATION
(U)

The report compares and evaluates the current UICP (Uniform Inventory Control Point) physical inventory selection method with PCM (Penalty Cost Model). The report also evaluates the sensitivity of parameter changes in the UICP physical inventory program. Analysis of ICP %inventories demonstrated that the number of inventories can be drastically reduced without adversely affecting requisition effectiveness while also increasing the net worth of taking the inventory. Thus, inventorying resources are used in a more cost effective manner. (Modified author abstract) (U)

## UNCLASSIFIED

DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMO?

AD- 768 363

14/4

POLYTECHNIC INST OF BROCKLYN N Y DEPT OF ELECTRICAL ENGINEERING AND ELECTROPHYSICS

Redundant Spares Allocation to Reduce Reliability Costs.

(U)

SEP 73 43P Sinkar.Sharad G.:Shaw. Legnard: REPT. NO. EER-104 CONTRACT: NOG0:4-57-A-0428-0012 PROJ: NR-042-301

## UNCLASSIFIED REPORT

DESCRIPTORS: (\*RELIABILITY(ELECTRONICS). OPTIM:ZATION).
(\*REDUNDANT COMPONENTS. SPARE PARTS).
FAILURE(ELECTRONICS). COSTS. PROBABILITY. REPLACEMENT
THEORY. MODULES(ELECTRONICS). COMPUTER PROGRAMS.
INTEGRATED CIRCUITS. INVENTOR? CONTROL
U)
IDENTIFIERS: ALLOCATION MODELS. FAILURE RATE
FUNCTIONS
(U)

Due to rapid developments in technology, provision of adequate number of spares at the time of acquisition of equipment has become a significant proble. Increased complexities of modern electronic equipments have resulted in modular designs. In the event of failure of one such a module, it is readily removed and replaced by a new one from the inventory. The problem considered here is the optimal selection of the inventory of spares for a system build from two kinds of modules, the larger of which can be conjected so it performs the role of the smaller one. The optimal inventory is the least costly one which achieves a specified probability that the spares will not be exhausted over the design lifetime. For some costs and failure rates it is most economical to use the larger module for both roles because of the resulting increase in flexibility in the deployment of a single type of spare module. The problem has been approached by analytical as well as simulation methods. (Author)

AD- 768 731

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PAGE 413

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD- 768 292 10/2

HAVAL CIVIL ENGINEERING LAB PORT HUENEME CALIF

Earth Heat Sinks for Underground Power Sources,

DESCRIPTIVE NOTE: Technical note.
AUG 73 83P Garg,S. C
REPT. NO. NCEL-TN-1306
PROJ: ZR000-01
TASK: 2R000-01-139 Garg.S. C. :

## UNCLASSIFIED REPORT

DESCRIPTORS: (\*POWER PLANTS(ESTABLISHMENTS), \*HEAT SINKS), UNDERGROUND STRUCTURES, SOILS. COST EFFECTIVENESS, COMPUTER PROGRAMS. CONDUCTION(HEAT TRANSFER), CIVIL DEFENSE DESCRIPTORS:

The cost effectiveness of earth heat sinks for underground power plants operating in a closed cycle over limited durations in time was determined through over limited durations in time was determined through a transient heat conduction analysis. A comparison of heat absorption capacity of earth heat sinks per cubic foot volume with the capacities of stored water and stored ice heat sinks was carried out for a specific set of operating conditions. The comparison has shown that the cost of an earth heat sink using select backfill—is approximately 8 and 14% of the cost of a stored ice heat sink, and approximately 10 and 23% of the cost of a stored water heat sink at sites with full and zero water tables, respectively. The overall volume of the earth heat sink was estimated to be 0.8 and 1.5 times the volumes of stored water and stored ice heat the volumes of stored water and stored ice heat sinks, respectively. It is recommended that earn should be considered as an alternative waste heat sink for limited duration, closed Cycle underground power systems because of its simplicity and lower cost. (Author)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 768 133 1/3 5/3

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Minimum Life Cycle Costing for a V/STDL Transport.

73 108P Smi REPT. NO. USAMC-ITC-1-73-21 Smith.Thomas W. :

#### UNCLASSIFIED REPORT

DESCRIPTORS: (\*SHORT TAKEOFF AIRCRAFT, COSTS), VERTICAL TAKEOFF AIRCRAFT, AIRFRAMES, SPARE PARTS. MAINTAINABILITY. LIFE EXPECTANCY. PROCUREMENT. COMPUTER **PROGRAMS** DENTIFIERS: COST ESTIMATING RELAYIONSHIPS. COST ESTIMATES. \*LIFE CYCLE COSTING (u)

The report proposes a new methodology for life cycle costing. In particular, a Vertical/Short Take-off and Landing (V/STDL) transport aircraft is Considered. The costs included are those of research and development, production. maintenance, and operation. The minimum cost is found by the minimization of a function of three variables: maximum speed at best altitude, gross take-off weight, and maximum thrust per engine. Several methods of minimization were investigated, including geometric programming. Sequential Uncurstrained Minimization Technique (SUMT). and the puttern search technique. The latter method was used with success and numerous computer runs were executed. The impact of the variation of many input parameters is shown in the results. (U) (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 767 698

6/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

On the Existence of Relative Moral Hazard.

(u)

DESCRIPTIVE NOTE: Technical rept.,
JUL 73 21P Whipple.David :Brill.Edward
;Walsh.David :
REPT. NO. NPS-55WP73071A

#### UNCLASSIFIED REPORT

DESCRIPTORS: (\*MEDICINE, COSTS)
IDENTIFIERS: \*MEDICAL SERVICES, HEALTH INSURANCE (U)

The paper points out that for purposes of estimating the total cost of various health care bills providing Comprehensive prepaid care the relevant concept is not 'moral hazard' as usually defined, but rather relative moral hazard, the tendency for an individual to increase utilization over what they might have done under a fee-for-service plus coinsurance system. Although the empirical results are tentative and preliminary, they seem to indicate that Great per capita jumps in the consumption of free inpatient care may well have been exaggerated. (Author)

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DDC REPORT BIBLICGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 767 090

15/5 14/1

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Analysis of Criteria for Changing Standard Prices.

(U)

AUG 73 23P Neely.S. D. :Searer.T. E. : REFT. NO. 73 PRJJ: FMSO-971157

#### UNCLASSIFIED REPORT

DESCRIPTORS: (\*INVENTORY ANALYSIS. \*COSTS). (\*NAVAL EQUIPMENT. \*NAVY BUDGETS). NAVAL PROCUREMENT. LOGISTICS. MAINTENANCE. MANAGEMENT PLANNING AND CONTROL. ECONOMICS. IMPACT (U) IDENTIFIERS: LOGISTICS MANAGEMENT. MANAGEMENT ANALYSIS. BENEFIT COST ANALYSIS. PRICES. COST COMPARISON. ECONOMIC ANALYSIS (U)

Under Current procedures. a Navy ICP
(Inventory Control Point) notifies its
customers of changes in repair part prices whenever
the difference between the new standard price and the
catalog price has an impact of at least \$50 on the
value of annual demand. Upon completing an
inspection of the Navy Electronics Supply
Office, the Naval Supply Systems Command
Inspector General recently recommended the policy
be changed so that a new price is published whenever
the difference between the new and published price is
10% or more. Certain costs are incurred each time
a notification of a price change is given. A study
was performed to determine the most economical policy
for making price changes. The current policy was
tested varying the \$50 impact value from \$0.01 to
\$160. The proposed policy was tested varying the
10% change value from 1/5% to 12%. The
results Indicated that the current policy requiring a
\$50 impact on the value of annual demand is the
most economical. (Modified author abstract)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 767 071 9/2

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

Cost Tradebifs Between Local and Remote Computing.

DESCRIPTIVE NOTE: Technical rept..
AUG 73 19P Lien.z.Ber
REPT. NO. TR-4
CONTRACT: NO0014-67-A-0269-0027 Lien z.Bennet P. ;

#### UNCLASSIFIED REPORT

DESCRIPTORS: (\*DATA PROCESSING, COST EFFECTIVENESS) NETWORKS, TRAFFIC, DESIGN, CPTIMIZATION, STATISTICAL ANALYSIS, REMOTE CONTROL IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS, BENEFIT COST ANALYSIS, \*COMPUTERS, \*NETWORKS, DATA BASES

A major problem in communication networks analysis is to determine the degree of centralization of computer power that is desirable from both an operational and cost/benefit point of view. An operational and cost/pereil point of view. An example of this problem occurs in a manufacturing complex wherein decisions must be made on the distribution of data, process power, and redundancy. Because of the many parameters involving hardware. system software, and communications, a purely analytical approach is often impractical. The method here is to employ an analytical simulation model to obtain measurus of cost, throughout, and response time. After the mode itself is examined. response time. Arres the mode itself is examined, focus is placed on saveral experiments which reveal the superiority of semi-centralized configurations. Application to logistic and manufacturing systems are explored along with the development of a network link construction method. The above mentioned experiments reveal the dependence of the analysis on the characteristics of the actual or anticipated the characteristics of the actual or anticipated message traffic. For a manufacturing system, a method is developed for isolating parts of a computer network as a specific degree of importance to the network functioning and failing. This is examined in the context of the message traffic rather than graph theoretic methods.

# UNCLASSIFIED

DDC REPORT BIBLIOGPAPHY SEARCH CONTROL NO. ZOMOT

AD- 767 C28 1/2

NAVAL AEROSPACE MEDICAL RESEARCH LAB PENSACOLA FLA

Orientation-Error Accidents in Regular Army Aircraft During Fiscal Year 1970: Relative Incidence and Cost.

(u)

DESCRIPTIVE NOTE: Joint rept..

AUG 73 46P Niven.dorma I.: Hixson.W.
Carroll Spezia.Emil:
REPT. NO. Nivel.1188
PROJ: MF51.524
TASK: M51.524.005
NONITOR: 1554.524 MONITOR: USAARL

## UNCLASSIFIED REPORT

DESCRIPTORS: ( \*AVIATION ACCIDENTS. ARMY AIRCRAFT). (\*VERTIGO. PILOTS). ERRORS. PERFORMANCE(MUMAN). COSTS. CASUALTIES. DAMAGE ASSESSMENT. HELICOPTERS. ARMY. IDEN IFIERS: \* ORIENTATION ERROR ACCIDENTS (11)

The report is the fourth in a series of dealing with the pilot disorientation/vertigo accident problem in Army fixed wing and rotary wing flight operations. Incidence and cost data presented for fiscal year 1970 include a total of 81 major and minor orientation-error accidents (25 of which were fatal), resulting in 80 fatalities, 104 nonfatal injuries, and an over-all aircraft damage cost of \$19,355.689. The contribution of rotary wing accidents to this total was 75 accidents (24 of which were fatal). resulting in 79 fatalities. 98 nonfatal injuries. and over-all aircraft damage cost of \$17.060.490. (Author)

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AD- 767 028

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMC7

AD- 766 757 10/2

PRATT AND WHITNEY AIRCRAFT EAST HARTFORD CONN

Air Mobility Fuel Cell Study.

(U)

DESCRIPTIVE NOTE: Technical rept. 9 May 72-9 Jan 73. JUL 73 189P Ari REPT. NO. PMA-4635 CONTRACT: F29601-72-C-0083 PROJ: 'AF-683M Arnold.Jeffrey H. :

MONITOR: AFWL TR-73-26

# UNCLASSIFIED REPORT

DESCRIPTORS: (\*FUEL CELLS, \*AUXILIARY POWER PLANTS).
(\*ARMY EQUIPMENT, FUEL CELLS), CC5TS, MILITARY
REQUIREMENTS, FUEL DIL, CATALYSTS, DESIGN, GAS TURBINES.
MOBILITY, COMPUTER PROGRAMS
(U)
IDENTIFIERS: LIFE TESTS, COST ESTIMATES. (U) DESULFURIZATION

An analytical and test program was conducted to evaluate the fuel cell power concept for the Bare Base mission which was selected as an example of air mobility application. A life cycle cost model was developed and the life cycle costs of candidate was developed and the life cycle costs of candidate fuel cell power systems were compared to the present Bare Base centralized power system. A study and test program was conducted to determine the feasibility of desulfurizing military JP-4 fuel and a powerplant test program was also conducted to evaluate operation on JP-4 fuel to meet typical air mobility loads. Study results verified that dispersed fuel cell power systems offer potential operational advantages in system installation. Operation, and maintenance and are economically competitive with existing centralized power systems. The desulfurizer test program demonstrated the feasibility of desulfurizing JP-4 fuel. The desulturizer test program demonstrated the feasibility of desulturizing JP-4 fuel. Powerplant tests demonstrated the capability to operate on JP-4 fuel and the ability to provide power compatible with air mobility loads. A comprehensive field experiment was planned as a comprehensive field experiment was planned as a logical next step to confirm the economic and operational conclusions of the study and provided detailed design information for an air mobility fuel cell system. (Author)

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWOT

AD- 766 624 15/5 5/3

STATE UNIV OF NEW YORK BUFFALO SCHOOL OF MANAGEMENT

An Approach to the Allocation of Common Costs of Mult:-Mission Systems.

(U)

18P Crow.Robert Thomas :

#### UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v20 n3 0431-447 Sep 73. DESCRIPTORS: (\*NAVAL OPERATIONS, LOGISTICS). (\*ECONOMICS, COSTS), PROCUREMENT, MATHEMATICAL

(U) (11)

IDENTIFIERS: MARGINAL COSTS. ALLOCATION WODELS. PRICES. RESOURCE ALLOCATION. \*COST ANALYSIS

Many Naval systems, as well as other military and Civilian systems, generate multiple missions. An outstanding problem in Cost analysis is how to allocate the costs of such missions so that their allocate the costs of such missions so that their true costs can be determined and resource allocation optimized. The paper presents a simple approach to handling this problem for single systems. The approach is based on the theory of peak-load pricing as developed by Marcel Boiteux. The basic principle is that the long-run manginal cost of a mission must be equal to its price. The implication of this is that if missions can cover their own manginal costs, they should also be allocated some of the manginal common costs. The proportion of costs to be allocated is shown to a function of nor only the mission-specific manginal function of not only the mission-specific marginal costs and the common marginal costs, but also of the mission price. Thus, it is shown that measures of effectiveness must be developed for rational cost allocation. The measurement of effectiveness has iong been an intractable problem. rowever.
Therefore, several possible means of getting around this problem are presented in the development of the Concept of relative mission prices. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7 14/1

AD- 766 376

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CENTER FOR NAVAL ANALYSES ARLINGTON VA

A Critique of Cost Analysis,

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JUL 73 15P Augusta.Joseph H.; REPT. NO. CNA-Professional Paper-110

## UNCLASSIFIED REPORT

DESCRIPTORS: (\*GOVERNMENT PROCUREMENT, \*COSTS).
DEPARIMENT OF DEFENSE. COST EFFECTIVENESS, DECISION
MAKING. WEAPON SYSTEMS
IDENTIFIERS: LOGISTICS MANAGEMENT. RESOURCE
ALLOCATION, FISCAL POLICIES, \*COST ANALYSIS (U)

Cost analysis as the term is used today in DoD. covers a broad range of activities from resource allocation for an entire service to detailed estimates of procurement and operating costs for individual weapon systems. These different estimates are used for a wide range of purposes; from helping decision-makers decide upon broad choices of helping decision-makers decide upon broad choices of strategies, to justification of new purchases. The methods employed range from sophisticated statistical techniques to 'back-of-the-envelope' calculations. All these things are properly included in cost analysis. However, the author describes some of the broader uses of cost analysis and to stay away from the specifics of individual weapon systems costing. The author concentrates on two broad areas of concern to today's cost analysts: one is procurement costing, the other is force level costing. Both these types of Cost analyses have been strengthened in recent years; the latter because of the charge in the way OSD manages the planning system - the introduction of Fiscal Guidance - and the former because of the change in the procurement system - the because of the change in the procurement system - the DSARC and the independent review system - plus a change in the attitudes of the people of the United

#### UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 766 342

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BATTELLE COLUMBUS LABS CHIO

Press Brake-Roll and weld Fabrication of Prototype Large-Diameter Missile Motor Cases: Production Cost Estimates.

(U)

SEP 73 14P Mu CONTRACT: DAAHO1-72-C-0821 Mueller.R. A. :

# UNCLASSIFIED REPORT

DESCRIPTORS: (\*PRODUCTION CONTROL. COSTS). (\*ROCKET ENGINE CASES, MANUFACTURING), (\*SCILD PROPELLANT ROCKET ENGINES, RECKET ENGINE CASES), MARAGING STEELS, MARTENSITE, METAL SPINNING, METAL FORMING BRAKES. PRESSES (MACHINERY). MECHANICAL WORKING. WELDING (U)

IAC ACCESSION NUMBER: MCIC-106362
IAC DOCUMENT TYPE: MCIC -HARD COPYThe report analyses production costs for manufacturing 16 inches rocket motor cases by utilizing various fabrication techniques and varying casing materials.

IAC SUBJECT TERMS: M--(U)Missile Components. Pocket Motor Cases. Fabrication, Engineering Steel. DGAC. Maraging (300). AISI 4130. Welding. Shear Spinning, Costs, Computer Programming, Rolling.:

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

AD- 766 232 10/2 20/9

ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN

Development of Design Criteria, Cost Estimates, and Schedules for an MHD High Performance Demonstration Experiment

Final rept. Apr 72-Apr 73, 7P Garrison.G. W. ;Brogan.T. DESCRIPTIVE NOTE: AUG 73 117P Garrison. R. ;Schmidt.H. J. ;Nolan.J. J. ; EPT. NO. AEDC-TR-73-:15 REPT. NO. PROJ: ARO-PF226

## UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with ARD. Inc., Tullahoma, Tenn. Rept. no. ARD-PWT-TR-73-75. DESCRIPTORS: ( \*MAGNETOHYDRODYNAMIC GENERATORS DESCRIPTIRS: (\*MAGNETOHYDRODYNAMIC GENERATORS.
PERFORM, HCE(ENGINEERING)), (\*ELECTRIC POWER PRODUCTION.
MAGNETCHIDROJYNAMIC GENERATORS), MAGNETOHYDRODYNAMICS.
SUBSONIC FLOW, GAS TURBINES, EFFICIENCY, DESIGN, COPL.
MAGNETS, COMBUSTION, HALL EFFECT, COSTS, ECONOMICS (U
IDENTIFIERS: GAS DYNAMICS, COST ESTIMATES, DESIGN

successful application of magnetohydrodynamics (MHD) for commercial, coal-fired, base-load power generation requires that the generator have an energy generation requires that the generator have an energy extraction ratio of approximately 0.20 with a turbing efficiency of 79 percent. There is a significant gap between this required performance and the generator performance which has been achieved to ... generator performance which has been achieved to date. The commercial MHD concept is critically dependent upon the generator achieving this required performance, and it is therefore essential that a demonstration of this generator performance have the highest priority. Of equal importance, the generator channel configuration and operating conditions which are necessary in order to achieve the required performance will be determined while accomplishing the performance demonstration. Thus other Office of Coal Research (OCR) sponsored MHD research efforts can be directed toward the real problems and configurations as determined by real problems and configurations as determined by solid experiments. (Modified author abstract) (U) UNCLASSIFIED

COC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT

#D- 765 473 13/3 13/13 16/1

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN LLL

Cost Performance Analysis of Portland Cement Concrete-Fibrous Polyester Concrete Material System (Sandwich Panels).

(U)

Wennit.Ron:

PT, NO. -----DESCRIPTIVE NOTE: Naus.Dan :Plummer.Fred :

989T, NO. CE9L-TR-M-45 PROJ: DA-4-KO-78612-ACK-2 TASK: 4-KG-78012-ADK-202

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## UNCLASSIFIED PEPORT

DESCRIPTORS: (\*CONCRETE, COSTS), (\*UNDERGROUN) STRUCTURES, -SANDWICH PANELS), POLYESTER PLASTICS CONSTRUCTION MATERIALS. REINFORCING MATERIALS. COMPOSITE MATERIALS, LOADS(FORCES), DEFORMATION, COST EFFECTIVENESS
IDENTIFIERS: POLYESTER FIBERS. FOFTLAND CEMENTS (U) HARDENED INSTALLATIONS, CONCRETE POLYMER COMPOSITES

Structural and shielding tasks for hardened facilities represent a substantial portion of the construction effort in both cost and time. Presently, the selection of a material is made a priori in favor of reinforced concrete and steel which places limitations on conceptual designs. Potential does exist for reducing construction time and cost of hardened facilities by using now material systems which have been successfully formulated to eet given functional and performance requirements. The material system investigated using analytical and experisental techniques consisted of a Conventional portland cerent concrete beam which had a layer of fibrous polyester concrete at the compression surface. The analytical results were used to determine the cost-performance feasibility of the reinforced concrete-fibrous polyester concrete material system. The performance analysis results indicate that the reinforced concrete-fibrous Polyester concrete material system is perfor effective when using citimate strength design Procedures and thus can be used to produce smaller and lighter weight structural elements that are more deployable than the conventional reinforced concrete

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO?

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OPERATIONS RESEARCH SROUP EDGEWOOD ARSENAL NO

The Magnitude of Variability in Cost Estimates.

AUG 73 192 DeArmon, Ira A. . Jr: CRG-Note-38

UTCLASSIFIED REPORT

DESCRIPTORS: (\*COSTS, UNCERTAINTY), CORRELATION
TECHNIQUES, STOCHASTIC PROCESSES, ANALYSIS OF VARIANC(U)
IDENTIFIERS: STANDARD DEVIATION, \*COST ESTIMATES (U)

The note proposes guidelines which might be useful in determining variability within cost comparison studies when the statistical variability is unknown. The definition and use of statistical uncertainty is discussed and illustrated with examples pertaining to site location evaluations. A logical means is suggested for deriving a statistical parameter from the engineering and managerial concept of percent error. Once a measure of the stondard deviation of a cost has been postulated, use of such a measure is suggested for: Determining the variability of a suggested for Determining the Variability of a total cost, Estimating a standard deviation of a total cost difference, and Determining a least significant difference for the comparison of several total cost estimates. (Author)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMOT 14/1

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ASKY ELECTRONICS COVERNO FORT MOMENTH N I

Guidelines for Cost Estimation by Analogy.

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DESCRIPTORS: ( \*ARMY PROCUREMENT. \*COST EFFECTIVENESS). STATISTICAL ANALYSIS. UNCERTAINTY, COSTS. INTEGRATED CIRCUITS

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The increasing ability to tailor the designs of electronic Circuitry to unique requirements and the rapid technological advances in electronics tends to limit the derivation of mathematical cost estimating relationships (CER). Estimates made for electronic item costs therefore have relied heavily on engineering judgement and analogy estimating. The report covers. In an exploratory sense, the weaknesses of many estimates by analogy and the considerations that may be entertained to approve the estimating procedure. It is the intent of the report to provide a critique of a proc estimate. identify the pasic problem areas, and provide suggested procedures to minimize the weaknesses of analogy estimating. Detailed step-by-step procedures are introduced and use of some basic Statistical measures are presented. The report concludes with a checklist of questions the estimator should ask himself to determine the adequacy of his estimating endeavor. (Author) (11)

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INSTITUTE FOR DEFENSE ANALYSES FREINGTON VA COST ANALYSIS GROUP

'Design to Cost' Buzz-Word or Viable Concept.

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DESCRIPTURS: (\*GOVERNMENT PROCUREMENT, COST EFFECTIVENESS), (\*DEPARTMENT OF DEFENSE, \*CONTRACTS), MUNITIONS INDUSTRY, AIRCRAFT INDUSTRY, ELECTRICAL INDUSTRY, ECONOMICS, MILITARY BUDGETS, RESEARCH MANAGEMENT, LOGISTICS (U)

'Design to Cost' is a phrase increasingly used in the DoD management literature. Accompanying the increased use has been a proliferation of interpretations of the phrase. This paper notes three of the interpretations currently in use: a buzz-word which is meant to attract attention to the cost problem, a concept of fina lial control whereby the Defense Systems Acquisition Review (Council establishes a target cost or 'bogey' reflecting the latest estimate for systems during their validation and development phases, and the concept implied by DoD Directive 5000.1 whereby cost is an important parameter during trade-off studies of a system in its design phase. (Modified author abstract)

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